



UntisExpress

Stundenpläne in Bestzeit



untis.com

Table of Contents

I	Timetable	6
1	Introduction.....	6
	Installation	6
	Entering licence data	6
	Automatic save	8
	Help functions	8
	Welcome screen	9
	Demo files	9
	Data entry wizard	10
2	Basic data.....	10
	School year	10
	Time grid	11
	Lunch break	12
	School holidays	13
3	Master data.....	14
	Master data maintenance	15
	Entries for all master data and lessons	16
	Serial change	17
	Rooms	18
	Alternative rooms.....	18
	Room weighting.....	19
	Classes without designated rooms.....	20
	Classes	21
	Time requests for classes.....	22
	Core times	23
	Differentiated time requests	23
	Teachers	24
	Time requests for teachers.....	25
	Specific time requests.....	25
	Unspecified time requests.....	26
	Values.....	27
	Subjects	28
	Printing master data and lessons	29
4	Lessons.....	30
	Entering lessons	30
	Simple lessons.....	30
	Coupled lessons	31
	Several classes.....	32
	Several teachers.....	32
	Several classes, teachers and subjects.....	33
	Coupling/decoupling lessons.....	34
	Double periods.....	34
	Blocks	35
	Multi-week lessons.....	36
	Other entries for lessons.....	36
	Input with element-rollup.....	38
	Lesson planning	38
	Lessons view toolbar	39
5	Automatic scheduling.....	41
	Weighting	41

Weighting distribution.....	41
Weighting parameters.....	42
Teachers 1 tab.....	43
Teachers 2 tab.....	44
Classes tab.....	44
Subjects tab.....	45
Main Subjects tab.....	46
Rooms tab.....	46
Period Distribution tab.....	47
Time requests tab.....	48
Optimisation	49
Optimisation.....	49
Evaluation.....	50
Diagnosis	50
6 Manual scheduling	53
Shifting periods	53
Scheduling periods	55
Locking periods	58
Unschedule periods	58
Allocating rooms	59
Swap suggestions	60
7 Timetables	62
The timetable window	63
Timetable interaction.....	63
Locking - colours.....	64
Timetable formats	65
Timetable portrait/landscape.....	65
Class schedule big.....	65
Timetable Overview classes.....	66
Timetable Overview classes-1.....	67
Timetable layout	68
Adjusting timetable size.....	68
Standard format.....	69
Text for the lesson period.....	70
Period window.....	71
Adding/deleting fields.....	72
Changing field size and position.....	72
Further settings.....	73
Printing timetables	74
Timetable selection.....	75
Page layout.....	75
Menu bar page layout.....	75
Header and footer.....	76
Period window.....	76
Insert image.....	77
Individual timetables page layout.....	78
Overview timetable details.....	82
Timetables in HTML format.....	84
8 Lists	84
Class lists	84
Teachers of the class.....	85
Period time requests.....	86
Day time requests.....	86
Unspecified day requests.....	86
Time request: Teachers of the class.....	87
Teacher lists	87
Period time requests.....	88

Day time requests.....	88
Unspecified additional day requests.....	89
Room lists	89
Period time requests	90
Subject lists	91
Timetable.....	91
Period time requests	91
II Break supervision	92
1 Data entry.....	92
2 Break supervision window	93
3 Weighting.....	95
4 Optimisation.....	95
5 Manual scheduling.....	96
6 Timetable display.....	96
7 Effect on cover schedule	98
III Cover Planning Express	98
1 Example	99
2 Settings.....	101
Activating cover scheduling mode	101
Time grid	102
Absence reasons	103
3 Calendar.....	104
Details window calender	105
Daily comments tab	106
Calendar day tab	107
4 Substitutions window.....	108
Processing substitutions	109
Cancellation.....	110
Substitution.....	110
Supervision.....	111
Room replacement.....	111
5 Suggestion.....	112
Supervision suggestion	114
Automatic substitution optimisation	115
6 Entering absences.....	116
Filtering and printing absences	118
7 Events.....	119
Create an event	119
Events for student groups	120
8 Scheduling in the timetable	121
Moving periods	121
Swapping periods	124
Cancelling periods	124
Special duties	125
Room replacement - room change	127
9 Scheduling dialogue	127
10 Printing substitutions.....	129
11 Terms.....	130
Opening a new Term	131

Embedding a Term	133
12 Entering holidays.....	134
IV Settings and menu navigation	136
1 The menu.....	136
2 Folding the menu.....	136
3 File tab.....	137
4 Settings.....	138
School date	138
Miscellaneous	139
Reports	142
Index	144

1 Timetable

1.1 Introduction

The purpose of this brochure is to offer a fast, uncomplicated introduction to Untis Express. This manual should help you to create your school's timetable within no time and to perform day-to-day [Cover scheduling](#) .

Please bear in mind when working with the application for the first time that entering initial data ([Teachers](#) , [Classes](#) , [Rooms](#) , [Lessons](#) etc.) will take relatively long, but that when you come to create new timetables you will be able to work with the same basic data and will therefore only need to enter changes that occur at your school from year to year (e.g. changes in staff, subject allocation etc.).

Before you actually start creating timetables, we would first like to provide some information on [Installation](#) , [Licencing](#) , [Online help](#) , the [Welcome screen](#) , [Demo files](#) and the [Data entry wizard](#).

1.1.1 Installation

Double-click on the "SetupUntis[Version]DE.exe" file to start the installation of the software. The setup wizard will assist you.

We recommend that you do not change the default installation path. On an English-language Windows system with administrator rights this will be, for example C:\Program Files\Untis or 'C:\Program Files (x86)\Untis' for a 64 bit operating system. Always install Untis with administrator rights. This holds true also for all other paths, designations and names, since this short introduction as well as all brochures refer to these proposals.

The setup wizard will inform you as soon as installation is complete. Launch Untis by clicking on the application icon that has been placed on your desktop.

**Note: Central installation**

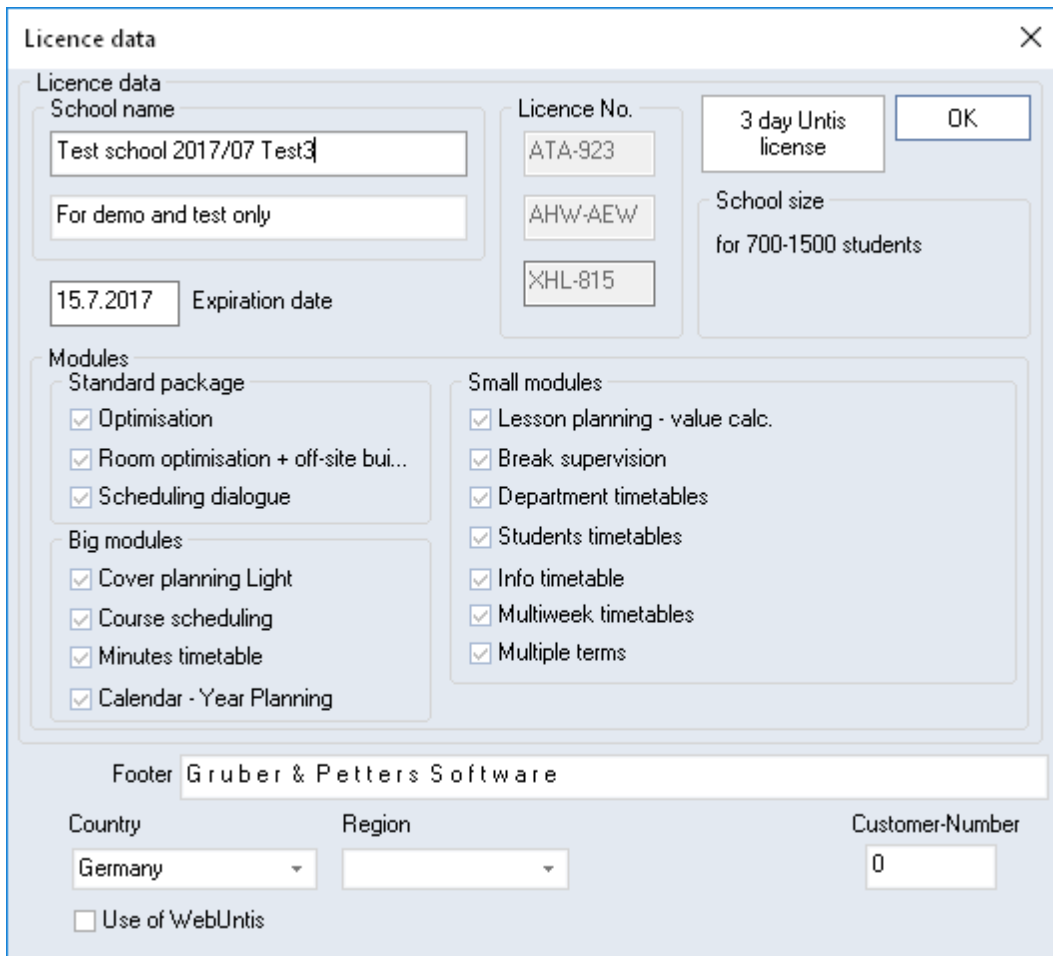
You can install Untis on a central server, as well and give access to Units.exe to individual clients. Please note that Untis needs to be started at least once with Windows administration rights on every client's computer.

Warning: Windows Version

Untis 2018 needs at least Windows 7.

1.1.2 Entering licence data

When you go to the tab 'File' and select 'New', you will be prompted to enter your licence data. (Your [Untis partner](#) will have provided you with a document containing your licence numbers.)



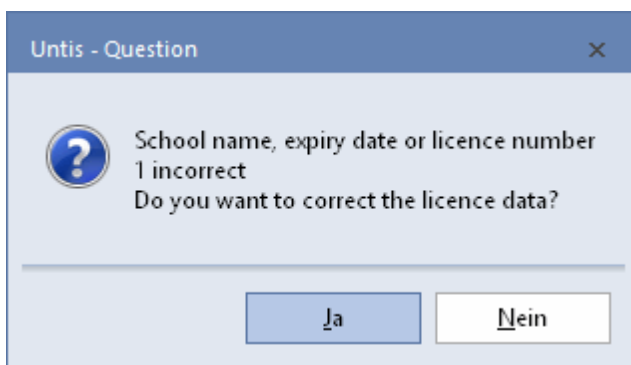
The 'Licence data' dialog box contains the following fields and options:

- Licence data section:**
 - School name:
 - For demo and test only:
 - 15.7.2017 Expiration date:
 - Licence No.:
 - 3 day Untis license:
 - OK:
 - School size: for 700-1500 students
- Modules section:**
 - Standard package:
 - Optimisation
 - Room optimisation + off-site bui...
 - Scheduling dialogue
 - Big modules:
 - Cover planning Light
 - Course scheduling
 - Minutes timetable
 - Calendar - Year Planning
 - Small modules:
 - Lesson planning - value calc.
 - Break supervision
 - Department timetables
 - Students timetables
 - Info timetable
 - Multiweek timetables
 - Multiple terms
- Footer:** Gruber & Petters Software
- Country:**
- Region:**
- Customer-Number:**
- Use of WebUntis

Please make sure to enter the licence data correctly and confirm with <OK>.

Incorrect licence data

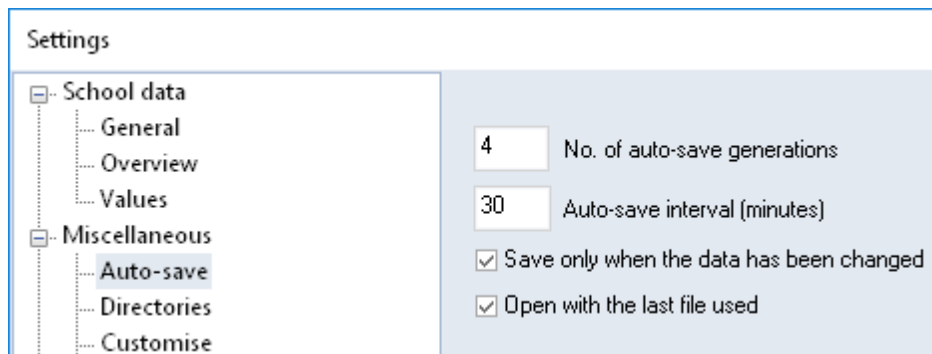
If you have a temporary licence you will also have to enter an expiry date. If the message



is displayed, check your input with the details on the licence data document and correct the entry. Please note that the entry is not case-sensitive, however all characters of the two lines of the school name, the licence number and expiry date must be entered exactly as they appear on the document. Confirm your entries with <OK>. You will only be able to create a file for your own school after the licence data have been entered correctly.

1.1.3 Automatic save

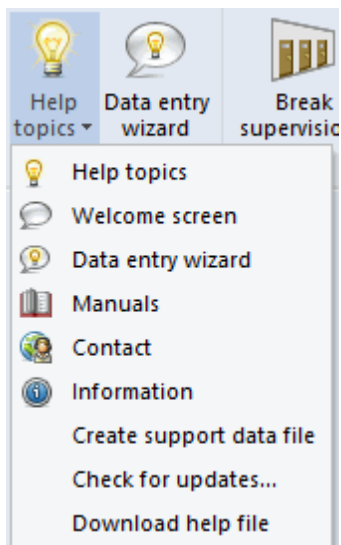
You can use the menu item "Settings | Miscellaneous | Auto-save" to specify how frequently Untis should automatically save data and how many backup generations should be archived. The settings in the figure mean, for example, that Untis should save the data every 30 minutes and use four generations of backup. These data are saved in files named save1.gpn, save2.gpn, save3.gpn and save4.gpn. The most current data are always in file save1.gpn and the oldest in file save4.gpn.



If you check the field "Open with the last file used", Untis will always load the last file to be processed when opening. You can suppress this function when you launch the application by holding the <Shift> key when opening.

1.1.4 Help functions

If you need general help at any point in time, press F1 to display help information. You need to be connected to the internet. If you are not permanently connected to the internet, you can also download the help files.

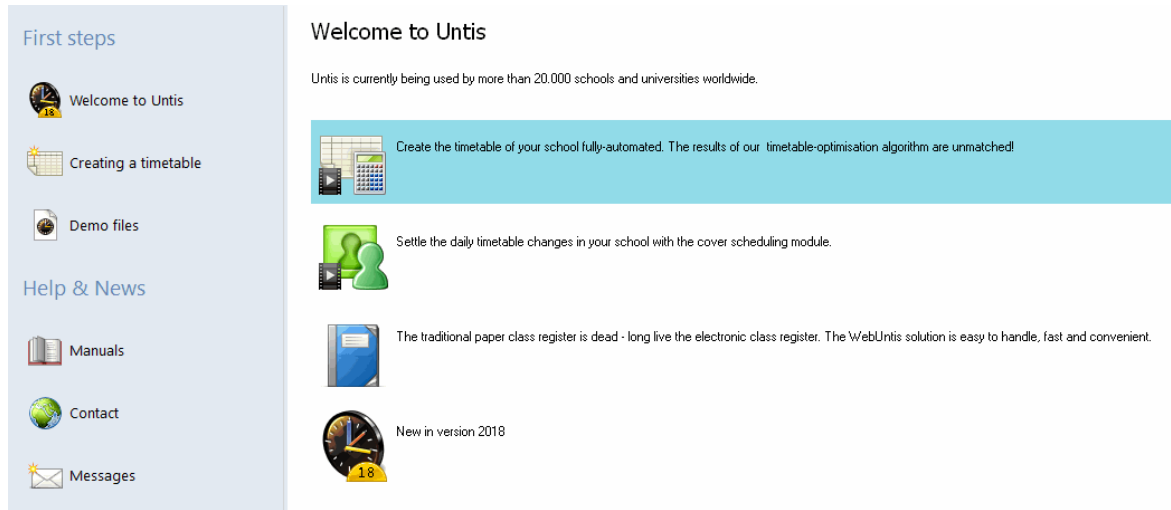


For every topic there is a manual for detailed information.

However, if you require specific information on e.g. a particular button or input field, activate the respective field and press F1.

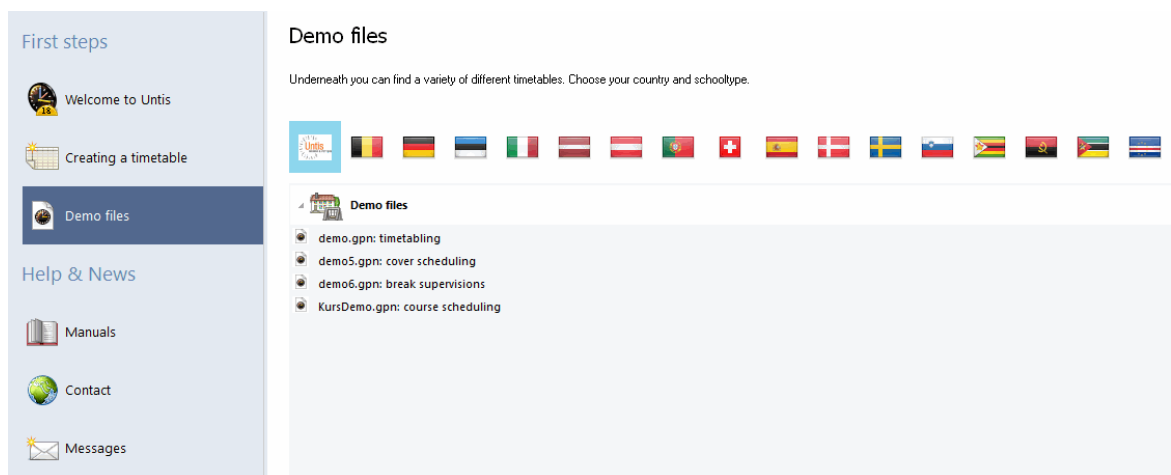
1.1.5 Welcome screen

When you launch Untis Express for the first time you will be greeted by a welcome screen.



The welcome screen gives you access to information in the form of interactive flash demos on the application and on what is new in the current version of Untis. You can also view all manuals and launch the [data entry wizard](#) .

Untis is deployed in a large number of countries. Take advantage of our international demo files to gain an overview of the possible uses of Untis.



1.1.6 Demo files

The demo files are intended to help you to get to know the functions and possible data entry scenarios in Untis. They already contain licencing and school data. There are two types of demo file in Untis:

- Actual school data that are typical of a certain type of school in a specific country. These files can be opened, for example from the [Welcome screen](#) .
- Simple files with different areas of focus that allow you to get to know the basic features of Untis without being overwhelmed by masses of data. You will find this data in the public Windows Documents file (e.g. Windows 8: C:\Users\Public\Documents\Untis. This manual generally

draws on the file demo.gpn for examples in this manual.

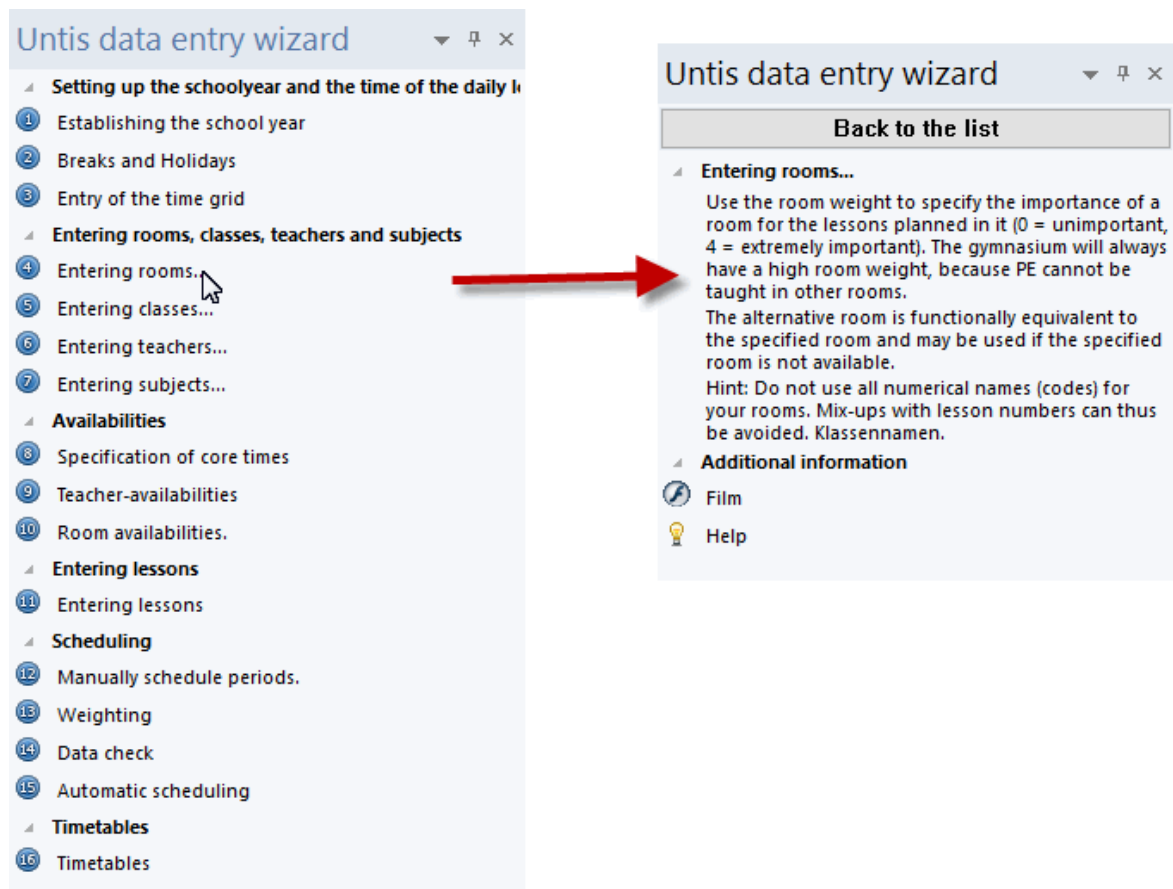
1.1.7 Data entry wizard

There are two ways of invoking the data entry wizard:

1. via the button 'Data entry wizard' under the tabs 'Start' or 'Data'
2. via the 'Create timetable' option in the welcome screen

The data entry wizard is intended to help you set up your timetable. The individual tasks should be completed chronologically. When you select a task, the corresponding window will open and brief information will be displayed on the topic.

You also have the opportunity to view a flash demo or to read the relevant chapter in the help function.



1.2 Basic data

All windows that are displayed in the [data entry wizard](#) can also be accessed via the corresponding menu item. The first block include the following:

- [the school year](#)
- [the time grid](#) and [the lunch break](#)
- [school holidays](#)

1.2.1 School year

Enter the duration of the school year under "Settings | School data". Make sure that the last day of the school year should be a Sunday. Do not include the summer holidays in your school year.

Confirm your input with <OK>.

The screenshot shows a 'Settings' dialog box with a tree view on the left containing 'School data', 'Miscellaneous', 'Reports', 'Substitution Planning', 'Course Scheduling', and 'MultiUser'. The 'School data' section is expanded, showing fields for 'School name' (Test school DEMO), 'Country' (Germany), 'Region', 'Language', 'School year' (Fr. 19.09.2018, To 30.06.2019), 'School number', 'ID' (1), and 'Type of school'. The 'School year' section is highlighted with a red oval. At the bottom right are 'OK' and 'Cancel' buttons.

1.2.2 Time grid

If you go to the tab 'Data' and click on the button 'Time grid' you can specify on how many days in the week lessons are held, how many periods per day are used for teaching and which of these periods are probably regarded as morning or afternoon periods.

The following times have been entered for the school in the example below:

- 5 days per week (Monday to Friday)
- 8 periods per day
- a maximum of 3 afternoon periods per day
- no lessons on Friday afternoons

Time grid

General Breaks Substitute

5 Number of days (1 to 7)

8 Maximum number of periods per day (1 to 60)

Monday First school day of the week

Entry:

Morning

Free

Afternoon

Period number	1	2	3	4	5	6	7	8
	8:00	8:55	9:50	10:45	11:40	12:35	13:30	14:25
	8:45	9:40	10:35	11:30	12:25	13:20	14:15	15:10
Monday	Mornii	Mornii	Mornii	Mornii	Mornii	Aftern	Aftern	Aftern
Tuesday	Mornii	Mornii	Mornii	Mornii	Mornii	Aftern	Aftern	Aftern
Wednesday	Mornii	Mornii	Mornii	Mornii	Mornii	Aftern	Aftern	Aftern
Thursday	Mornii	Mornii	Mornii	Mornii	Mornii	Aftern	Aftern	Aftern
Friday	Mornii	Mornii	Mornii	Mornii	Mornii			

OK Cancel Apply

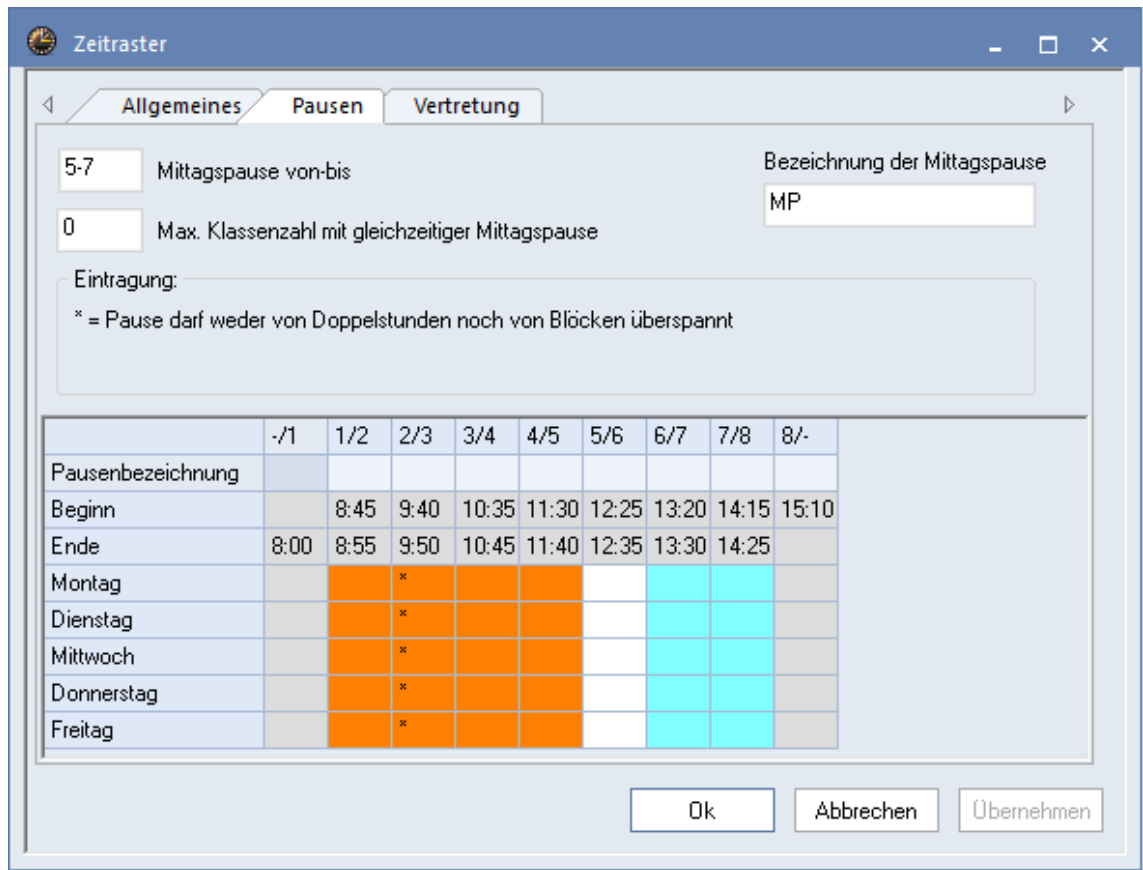
The 8 periods per day are divided into 5 morning and 3 afternoon periods. This distinction between morning and afternoon periods is important for the position of a possible [lunch break](#) and can in turn also influence when lessons are scheduled depending on additional settings.

Enter the length of each period in the relevant fields below the period in the grid. This allows you to enter different durations for afternoon or evening periods. It is also possible to enter a break for the entire school between the last period of the morning and the first period of the afternoon.

1.2.3 Lunch break

Any lunch break is automatically placed in the last period of the morning and/or the first period of the afternoon. You can influence the position of the lunch break on the 'Breaks' tab on the '[Time grid](#)' by selecting the first and last periods that can serve as lunch break. The length of the break between morning and afternoon lessons is specified at a later point in time (e.g. 1-2 periods depending on the class).

The example shows that the 5th period is the first that can be used as lunch break and the 7th period is the last. The lunch break must always lie on the boundaries or across the boundaries between morning and afternoon. The white fields indicate those breaks lying between the last period of the morning and the first period of the afternoon. It is also possible to specify the maximum number of classes that can have their lunch break at the same time plus the title of the lunch break in the timetable.

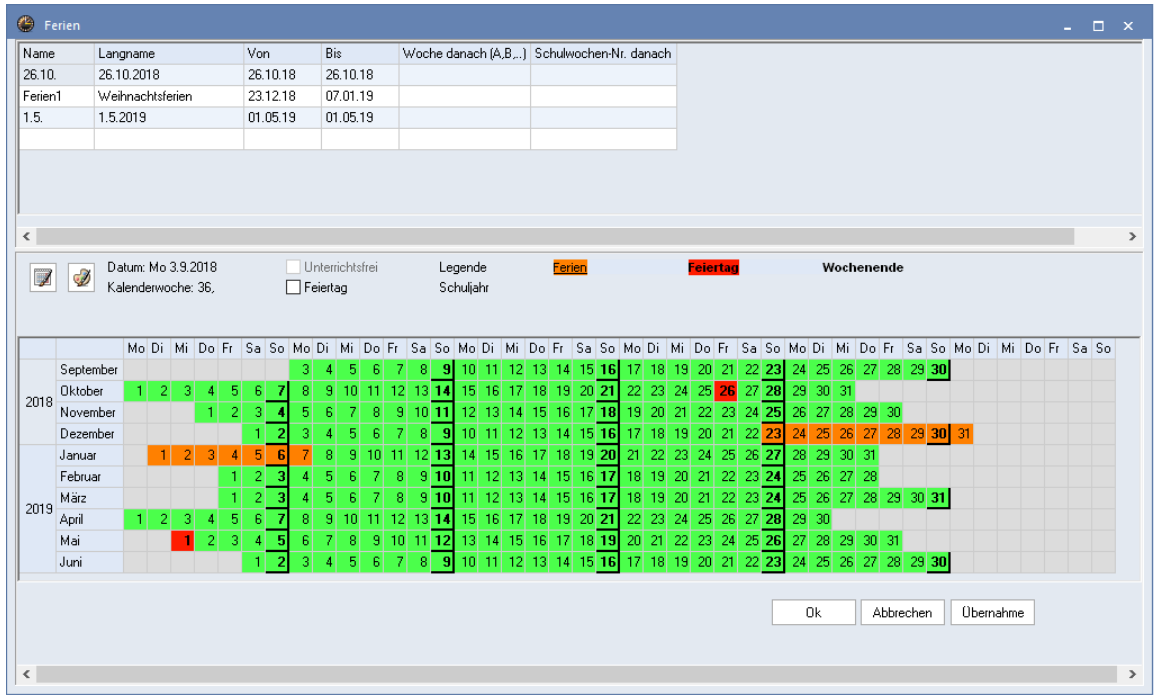


Note: Double period and break

If an * is entered for a break, as in the example between the second and the third period, a double period may not span the break.

1.2.4 School holidays

Under the tab 'Data' there is the button 'School holidays' where you specify when there will be no lessons due to school holidays or public holidays for the whole school in the current school year.

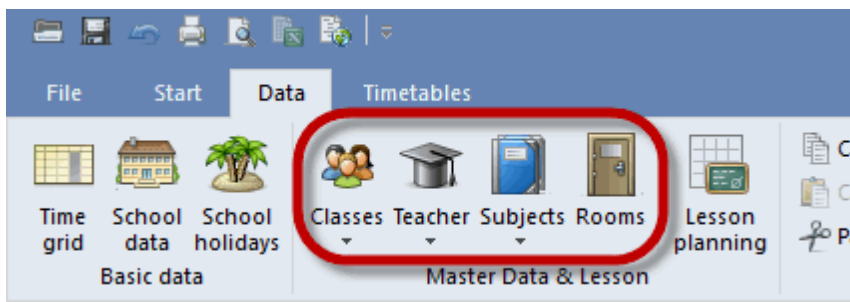


School holidays are important, if you use the cover scheduling function for daily changes in the timetable. School holiday and public holiday entries are also considered in calculating the weightings of the lessons for the teachers in the value calculation. However, they do not have any impact on the optimisation of the timetable.

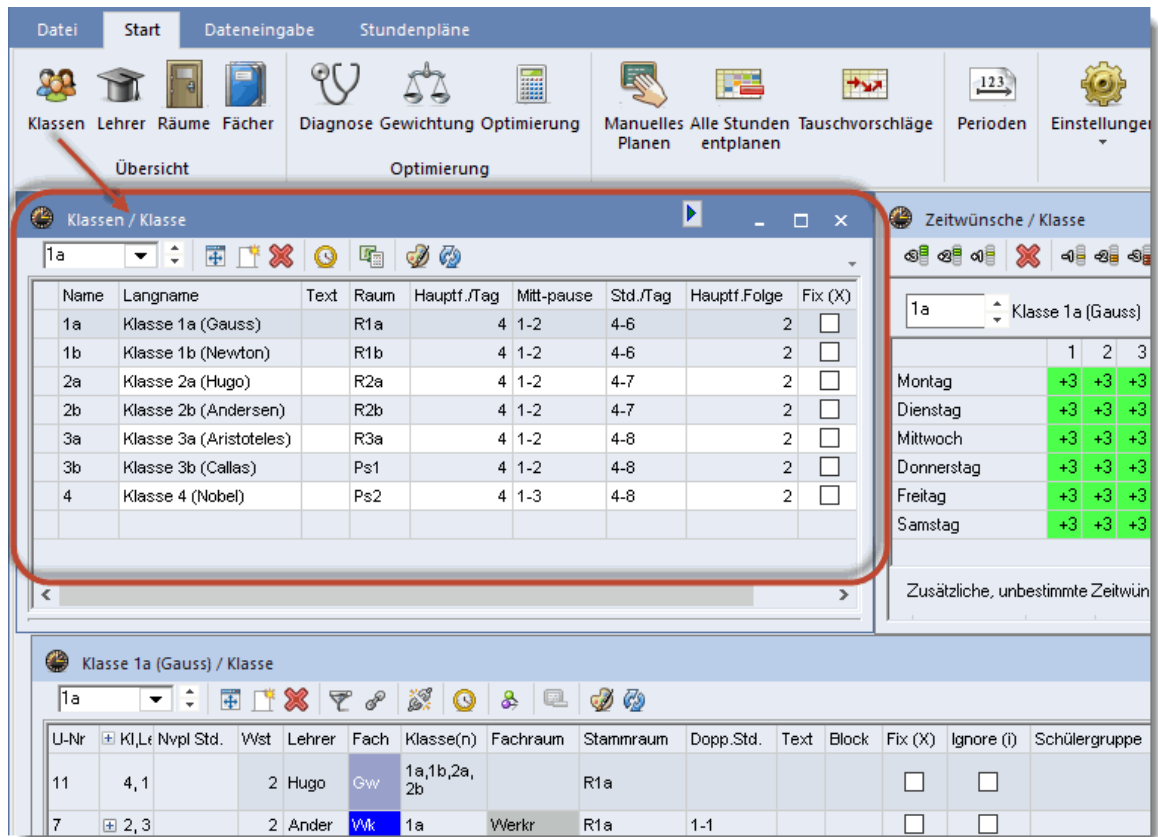
1.3 Master data

Master data refer to all school-specific resources in Untis which are essential for the creation of the timetable. These include [Rooms](#) , [Classes](#) , [Teachers](#) and [Subjects](#)

Master data can be selected via the menu items ' Master Data | Classes', 'Master Data | Teachers' etc.



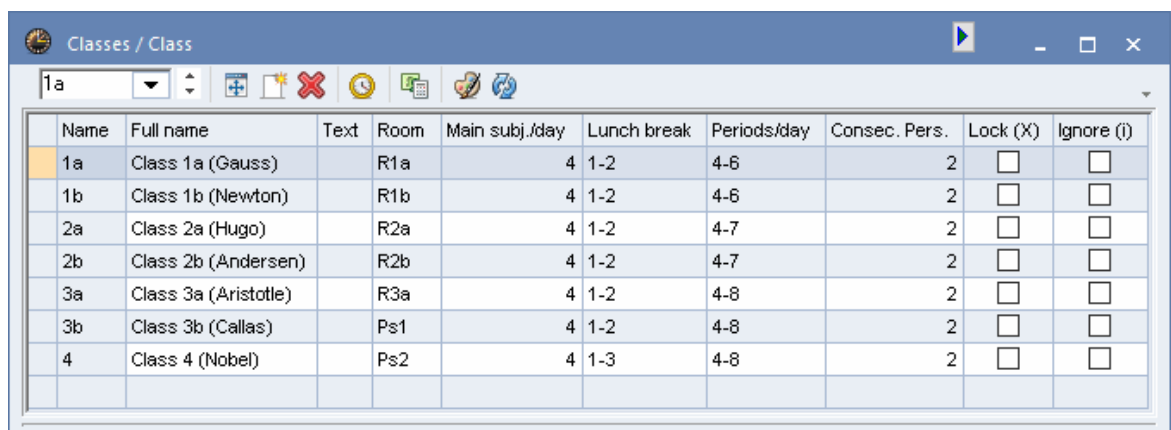
You also can access the master data of the respective element by clicking on the arrow below the respective icon on the 'Start' tab.



1.3.1 Master data maintenance

Creating a new master data element

You can create a new element (e.g. a new class) in the master data window by clicking into the last (empty) row in the grid and entering a short and a full name. When you click on the <New> button the cursor automatically gets to this row.



You can switch between the individual fields using the <Tab> key.

Changing the short name

You can change the short name by double clicking on it to open a separate window. You can mark

and change all other data (e.g. full name) by simply clicking on them in the grid view.

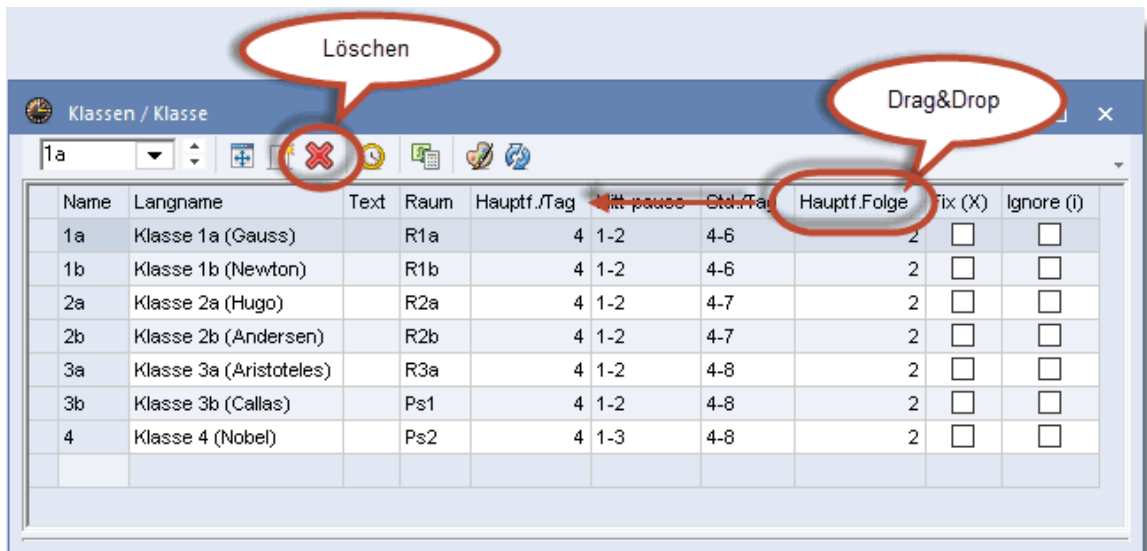
Short name

Name

Full name

Delete element

You can delete a master data element by activating/marking the respective row and clicking on the <Delete> button.



Sort order

Master data elements are always sorted in alphabetical order.

You can also change the order of the columns using drag and drop.

1.3.2 Entries for all master data and lessons

Some fields and functions can be found in (almost) all types of master data and in lessons.

Lock (X)	Ignore (I)	Text
<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	

Lock (X)

A lesson containing an element that is locked will be "frozen" in the timetable. Already scheduled periods will not be rearranged in a subsequent optimisation.

Ignore (i)

A lesson containing a master data element marked "Ignore" will be ignored in the timetable, i.e. it cannot be scheduled or displayed.

Text

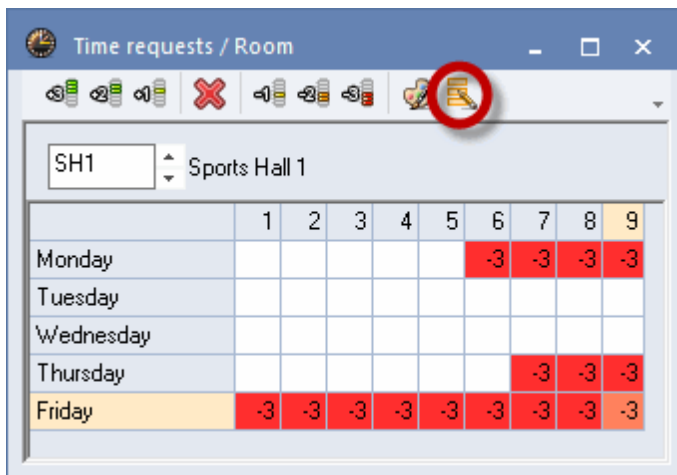
An explanatory text can be entered for each element.

Blocking

If an element is not available in a certain period you can block it using time requests. This means that optimisation will not schedule a lesson with the respective element in this period.

Select the appropriate period of time and enter the time request -3, which corresponds to an absolute block.

You can use the serial change function to apply this time request easily to other elements.

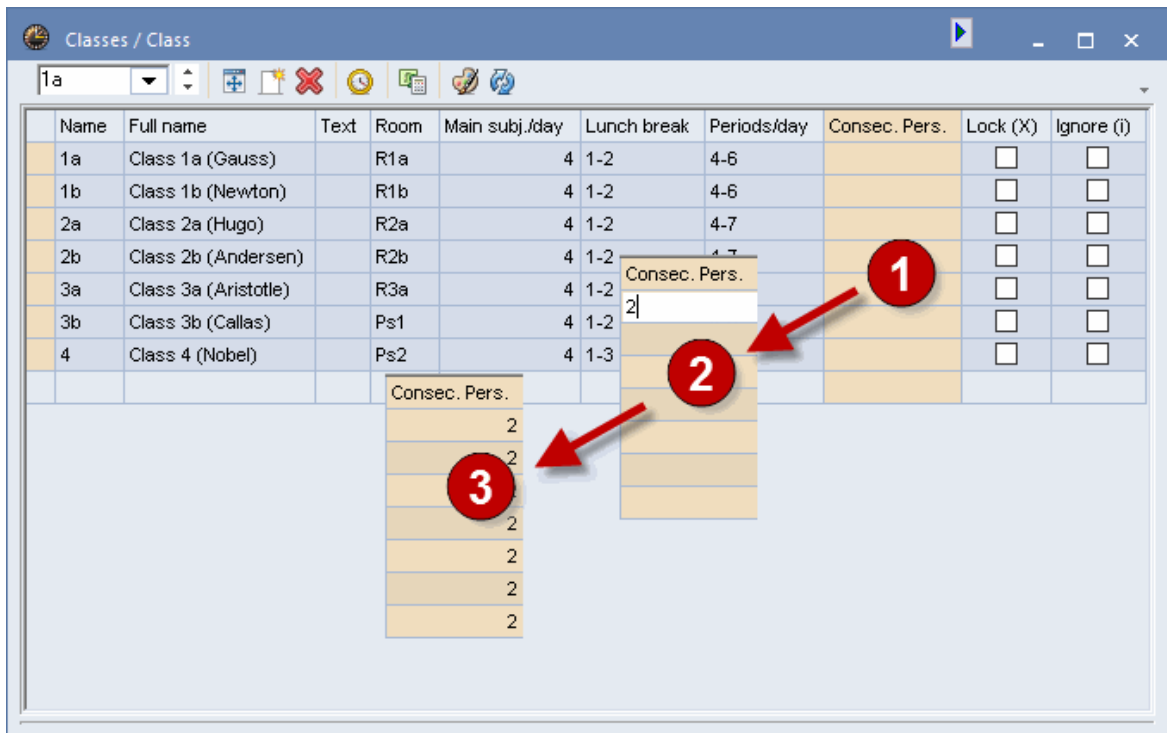


Defining time requests for [Classes](#) and [Teachers](#) may prove more difficult. You will find the explanation in the appropriate chapter.

1.3.3 Serial change

You can change more than one row in a column with just one entry. For example, perform the following in order to change the number of consecutive periods of main subjects in:

1. Hold the left mouse pressed to select the classes where you wish to make the entry.
2. Enter the desired value.
3. Confirm with <Enter> or <TAB>.



1.3.4 Rooms

Each master data element is uniquely described with a name and a full name.

Name	Full name
WS	Workshop
TW	Textiles workshop
SH1	Sports Hall 1
SH2	Sports Hall 2

Room name

Select an appropriate abbreviation that uniquely describes the room in your school. For example SH1 for sports hall 1 or R10 for class room number 10.

Room full name

Enter a full name which describes the room in more detail.

Tip: Room names

We recommend that you include at least one character in each room name and do not use numbers exclusively (e.g. R10 instead of 10). This helps to avoid confusion with possible classes of the same name and increases the legibility of the timetable or cover schedule. Rooms should not be given the same names as classes (e.g. R1a for class 1a's classroom) as this would mean having to rename the rooms each school year.

You should enter [alternative rooms](#) and [room weightings](#) for automated scheduling.

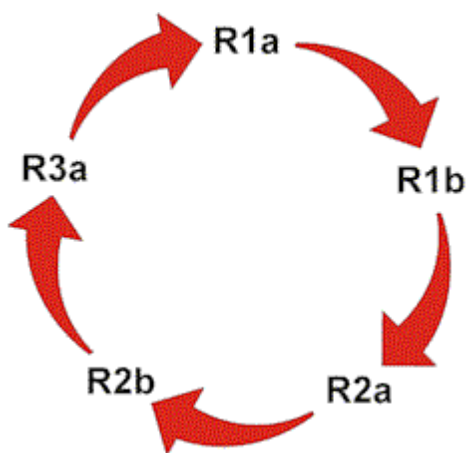
1.3.4.1 Alternative rooms

The alternative room is used for scheduling lessons if the room originally desired is already booked. In our example SH1 is the alternative room of SH2 (and vice versa).

Name	Full name	Text	Altern. room
SH1	Sports Hall 1		SH2
SH2	Sports Hall 2		SH1

Rings of alternative rooms

You may string functionally equivalent rooms together in such a way that they form a ring of alternative rooms. This has already been entered in the example. The alternative room for R1a is R1b, the one for R1b is R2a and so on until the ring is closed.



Name	Full name	Text	Altern. room
Ps1	Pseudo Room 1 (3b)		R1a
Ps2	Pseudo Room 2 (4)		R2a
R1a	Class Room 1a		R1b
R1b	Class Room 1b		R2a
R2a	Class Room 2a		R2b
R2b	Class Room 2b		R3a
R3a	Class Room 3a		R1a

If, during an optimisation run, it turns out that the desired room for a lesson (e.g. R1b) is already occupied, then the next rooms in the ring (R2a ...) will be checked until a free room is found in the ring.

These rings of alternative rooms make it possible to easily model the "geographical" circumstances of the school by having the sequence of alternative rooms reflect the position of the individual rooms to each other. You can thus save teachers and students wasting time moving between rooms when the neighbouring rooms are located next to each other in the ring.

1.3.4.2 Room weighting

The room weighting specifies the importance of a room for the lessons which are to be scheduled in it.

A room weighting of 0 means that the lesson will be scheduled during automatic scheduling even when there is no room or alternative room available. A room weighting of 4 signifies that scheduling the lesson only makes sense if the desired room (or one of the alternative rooms) is available. Physical education lessons, for example, only make sense if one of the sports halls is free, and cookery only makes sense if the kitchen is available, whereas maths may be taught in any room of the school which happens to be free.

Name	Full name	Text	Altern. room	Rm. Weight	Lock (X)	Corridors
SH1	Sports Hall 1		SH2	4	<input type="checkbox"/>	
SH2	Sports Hall 2		SH1	4	<input type="checkbox"/>	
PL	Physics lab.			3	<input type="checkbox"/>	
WS	Workshop			3	<input type="checkbox"/>	
TW	Textiles workshop			4	<input type="checkbox"/>	
HE1	Home Econ. room			4	<input type="checkbox"/>	
R1a	Class Room 1a		R1b	2	<input type="checkbox"/>	
R1b	Class Room 1b		R2a	2	<input type="checkbox"/>	
R2a	Class Room 2a		R2b	2	<input type="checkbox"/>	
R2b	Class Room 2b		R3a	2	<input type="checkbox"/>	
R3a	Class Room 3a		R1a	2	<input type="checkbox"/>	
Ps1	Pseudo Room 1 (3b)		R1a	2	<input type="checkbox"/>	
Ps2	Pseudo Room 2 (4)		R2a	2	<input type="checkbox"/>	

1.3.4.3 Classes without designated rooms

If it proves necessary to form classes without designated rooms, you can use the method of pseudo rooms. You can do this by simply assigning a fictitious room, a pseudo room to the respective class and blocking this room for every period of the week (using time request "-3").

Name	Full name	Text	Room	Main subj./dt	L
1a	Class 1a (Gauss)		R1a	4	1
1b	Class 1b (Newton)		R1b	4	1
2a	Class 2a (Hugo)		R2a	4	1
2b	Class 2b (Andersen)		R2b	4	1
3a	Class 3a (Aristotle)		R3a	4	1
3b	Class 3b (Callas)		Ps1	4	1
4	Class 4 (Nobel)		Ps2	4	1

Name	Full name	Text	Altern. Rm. W.	Lock	Corridors
SH1	Sports Hall 1		SH2	4	<input type="checkbox"/>
SH2	Sports Hall 2		SH1	4	<input type="checkbox"/>
Ps1	Pseudo Room 1 (3b)		R1a	2	<input type="checkbox"/>
PL	Physics lab.				
WS	Workshop				
TVV	Textiles workshop				
HE1	Home Econ. room				
R1a	Class Room 1a		R1b		
R1b	Class Room 1b		R2a		
R2a	Class Room 2a		R2b		
R2b	Class Room 2b		R3a		
R3a	Class Room 3a		R1a		
Ps2	Pseudo Room 2 (4)		R2a		

		1	2	3	4	5	6	7	8
Monday	Ps1	-3	-3	-3	-3	-3	-3	-3	-3
Tuesday	Ps1	-3	-3	-3	-3	-3	-3	-3	-3
Wednesday	Ps1	-3	-3	-3	-3	-3	-3	-3	-3
Thursday	Ps1	-3	-3	-3	-3	-3	-3	-3	-3
Friday	Ps1	-3	-3	-3	-3	-3	-3	-3	-3
Saturday	Ps1	-3	-3	-3	-3	-3	-3	-3	-3

Enter a room in your [classroom ring](#) as the [alternative](#) room for the pseudo room. Untis will now search for a suitable room for your class with no designated room.

Name	Full name	Text	Altern	Rm. W	Lock	Corridors
SH1	Sports Hall 1		SH2	4	<input type="checkbox"/>	
SH2	Sports Hall 2		SH1	4	<input type="checkbox"/>	
Ps1	Pseudo Room 1 (3b)		R1a	2	<input type="checkbox"/>	
Ps2	Pseudo Room 2 (4)		R2a	2	<input type="checkbox"/>	
PL	Physics lab.			3	<input type="checkbox"/>	
WS	Workshop			3	<input type="checkbox"/>	
TW	Textiles workshop			4	<input type="checkbox"/>	
HE1	Home Econ. room			4	<input type="checkbox"/>	
R1a	Class Room 1a		R1b	2	<input type="checkbox"/>	
R1b	Class Room 1b		R2a	2	<input type="checkbox"/>	
R2a	Class Room 2a		R2b	2	<input type="checkbox"/>	
R2b	Class Room 2b		R3a	2	<input type="checkbox"/>	
R3a	Class Room 3a		R1a	2	<input type="checkbox"/>	

1.3.5 Classes

A unique (short) name must also be given to each class. The full name field can also contain the class teacher in addition to the name. You will then see this, for instance, printed on all reports of this class.

Name	Full name	Text	Room	Main subj./day	Lunch break	Periods/day	Consec. Pers.	Lock (X)	Ignore (I)
1a	Class 1a (Gauss)		R1a	4	1-2	4-6	2	<input type="checkbox"/>	<input type="checkbox"/>
1b	Class 1b (Newton)		R1b	4	1-2	4-6	2	<input type="checkbox"/>	<input type="checkbox"/>
2a	Class 2a (Hugo)		R2a	4	1-2	4-7	2	<input type="checkbox"/>	<input type="checkbox"/>
2b	Class 2b (Andersen)		R2b	4	1-2	4-7	2	<input type="checkbox"/>	<input type="checkbox"/>
3a	Class 3a (Aristotle)		R3a	4	1-2	4-8	2	<input type="checkbox"/>	<input type="checkbox"/>
3b	Class 3b (Callas)		Ps1	4	1-2	4-8	2	<input type="checkbox"/>	<input type="checkbox"/>
4	Class 4 (Nobel)		Ps2	4	1-3	4-8	2	<input type="checkbox"/>	<input type="checkbox"/>

Tip: Tool tip

If you would like to have more information on a column, position the cursor over the column heading and a short description of the field will be displayed.

Room

The short name of a room for those classes which have their own room is entered in the field 'Room'. If you now create a lesson for this class, the room will be entered automatically. This saves a lot of manual input.

Main subjects per day

Subjects which are particularly demanding or important for the students can be marked as [<Main](#)

[subject](#)> by going to [Master data | Subjects](#) . In the column 'Main subj./day' you can specify how many main subjects may be taught per day.

Lunch break min, max

Enter the minimum (min) and maximum (max) length of the lunch break for each individual class. If the lunch break is to last exactly one hour, enter '1-1'. If you rely on Untis to schedule no or a two hour lunch break, then you need to enter '0-2'. If you want the class to have no lunch break at all, leave the field empty.

Which periods are in general suitable for lunch breaks can be defined under 'Data', 'Timegrid' - go to the 'Breaks' tab (please refer to chapter [Lunch break](#)).

Periods per day

You can specify here how many periods the respective class should be taught per day at a minimum (min) and how many lesson units may be allocated to one day at a maximum (max).

You should enter "4-6" if you wish to have the class taught for a minimum of 4 periods and a maximum of 6 periods each day.

Consecutive periods of main subjects

You can use this column to specify the number of [main subjects](#) that can be taught to a class consecutively. You can specify how important this point is for you via [weighting](#).

1.3.5.1 Time requests for classes

Untis offers you the possibility to enter an individual time request relating to each element i.e. to [teachers](#) , [classes](#) , [rooms](#) and [subjects](#)) as well as to each period of the day and for each day of the week. The options range from "-3" (do not schedule lessons here under any circumstances) to "+3" (schedule a lesson at all events). You can enter time requests for classes by clicking on the <Time requests> icon in the toolbar of the master data window.

The screenshot shows two windows from the Untis software. The top window is titled 'Classes / Class' and contains a table with columns: Name, Full name, Text, Room, main subj./day, Lunch break, Periods/day, Consec. Pers., Lock (X), and Ignore (i). The bottom window is titled 'Time requests / Class' and shows a table for 'Class 1a (Gauss)' with columns for days of the week and periods 1-8. The values in the table are +3 for periods 1-4 on all days. Below this table is a section for 'Additional unspecific time requests' with a table:

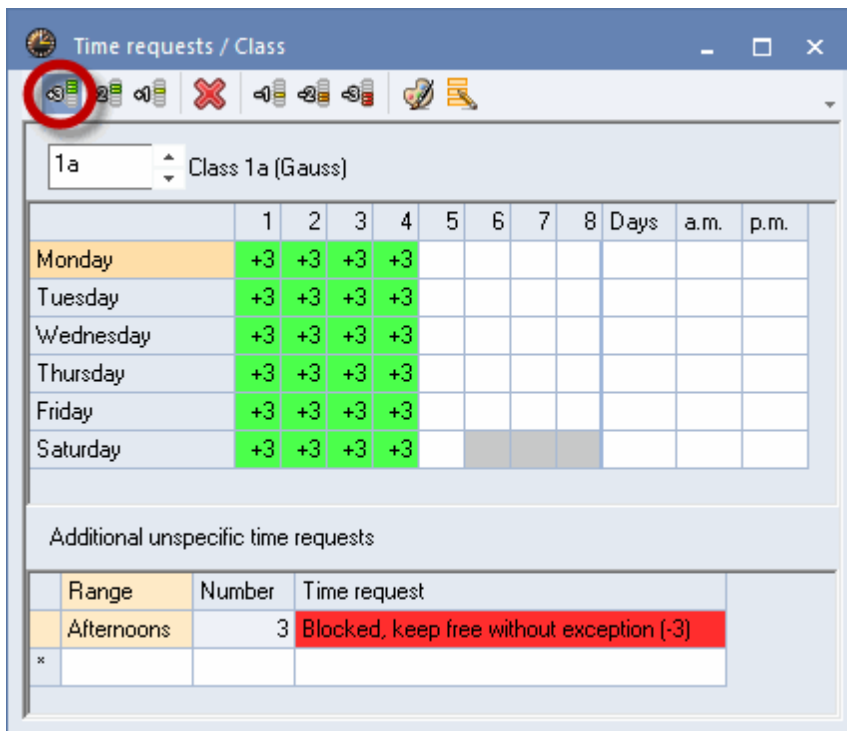
Range	Number	Time request
Afternoons	3	Blocked, keep free without exception (-3)
*		

The following time request entries are possible:

- [Core times](#)
- [Differentiated time requests](#)
- [Unspecified time requests](#) (these are described in chapter ' [Time requests for teachers](#) ')

1.3.5.1.1 Core times

If you want Untis to begin scheduling periods in the first period of the morning, enter a time request of +3 in the periods when lessons should take place at all costs. This was done for the 1st to the 4th periods in this example. This is known as core time. The optimisation algorithm treats violations of the core times as very serious infringements.



1.3.5.1.2 Differentiated time requests

You can use the time requests "+2" to "-2" for lessons which may in principle be scheduled any time but for which you wish to set preferences. The time request for class 1b can be explained as follows:

Lessons must take place between the 1st and 4th periods at all costs. Lessons should take place in the 5th but preferably not in 6th period. There should be no lesson in the 7th period and there must be no lessons scheduled in the 8th period and on Fridays in the 5th period. You can use [weighting](#) to determine for yourself to what degree [automatic scheduling](#) should take time requests into account.

Time requests / Class

1a Class 1a (Gauss)

	1	2	3	4	5	6	7	8	Days	a.m.	p.m.
Monday	+3	+3	+3	+3	+2	+1	-1	-2			
Tuesday	+3	+3	+3	+3	+2	+1	-1	-2			
Wednesday	+3	+3	+3	+3	+2	+1	-1	-2			
Thursday	+3	+3	+3	+3	+2	+1	-1	-2			
Friday	+3	+3	+3	+3	-3	-3	-3	-3			
Saturday	+3	+3	+3	+3	-3						

Additional unspecific time requests

Range	Number	Time request
Afternoons	3	Blocked, keep free without exception (-3)
x		

1.3.6 Teachers

Teachers also need a unique short name and, optionally, a full name. This is the teacher's last name in most cases but can also contain the first and last name.

Teachers / Teacher

Gauss

Name	Surname	Text	Room	NTPs target	Periods/day	Lunch break	Personnel No.	Consec. pers.	Lock (X)	Ignore (I)	Target/week	Value =	Actual-Target
Gauss	Gauss			0-3	2-6	1-2		4	<input type="checkbox"/>	<input type="checkbox"/>		17.000	17.000
New	Newton			0-1	4-6	1-2		5	<input type="checkbox"/>	<input type="checkbox"/>		26.000	26.000
Hugo	Hugo			0-1	4-7	1-2		6	<input type="checkbox"/>	<input type="checkbox"/>		19.000	19.000
Ander	Andersen			0-1	4-6	1-3		6	<input type="checkbox"/>	<input type="checkbox"/>		27.000	27.000
Arist	Aristotle			0-1	4-6	1-2		6	<input type="checkbox"/>	<input type="checkbox"/>		27.000	27.000
Callas	Callas			0-1	4-6	1-2		5	<input type="checkbox"/>	<input type="checkbox"/>		25.000	25.000
Nobel	Nobel			0-1	4-6	1-2		5	<input type="checkbox"/>	<input type="checkbox"/>		15.000	15.000
Rub	Rubens			0-1	4-7	1-3		3	<input type="checkbox"/>	<input type="checkbox"/>		29.000	29.000
Cer	Cervantes			0-1	4-7	1-2		4	<input type="checkbox"/>	<input type="checkbox"/>		24.000	24.000
Curie	Curie	maternal leave starts on 10. Nov.		0-1	4-7	1-3		6	<input type="checkbox"/>	<input type="checkbox"/>		18.000	18.000

Room

This is where you can enter a home room for the teacher. If a lesson is scheduled with a teacher who has a home room, this room will be automatically entered for the teacher's lesson.

Non-teaching period

Use the "NTP" column to enter how many non-teaching periods can be requested by or allowed for a teacher. An entry of 0-4 means that between zero and four non-teaching periods per week are allowed for a teacher.

Periods per day

Enter the minimum and maximum number of teaching periods per day for each teacher in the field

"Periods/day". An entry of 4-7 would mean that the teacher should teach at least 4 but no more than 7 periods per day.

Lunch break

Enter the minimum and maximum length of the lunch break for the individual teachers.

Personnel number

It is only necessary to enter the personnel number if it is required for printed reports or transfer files (for the authorities).

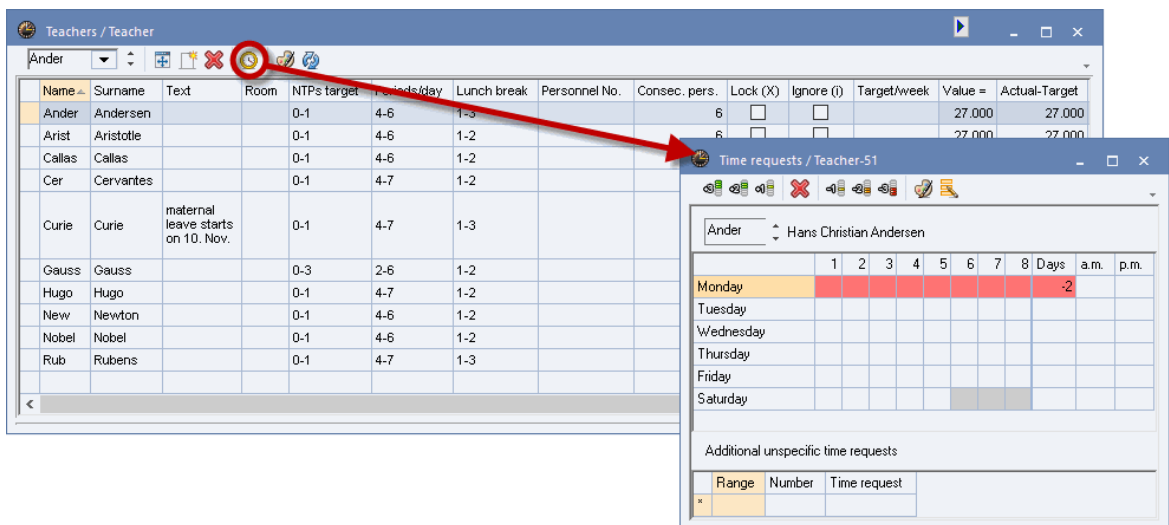
Consecutive periods

This is where you can specify the maximum number of periods each teacher wishes to teach before having a non-teaching period (break).

1.3.6.1 Time requests for teachers

In most cases, teacher's' time requests are particularly important. Untis therefore permits lessons to be scheduled in a way that takes individual teachers' wishes and requirements into consideration.

First select a specific teacher by clicking in the corresponding row of the grid view under 'Master Data | Teachers' and then click on the <Time Requests> button. The time request window will now be displayed for input.



1.3.6.1.1 Specific time requests

Use the upper section of the window to enter time requests for specific days and periods.

In the example teacher Hugo would *rather not* teach in the first periods. Thursday is teacher Hugo's day off.

Time requests / Teacher-51

Hugo Victor Hugo

	1	2	3	4	5	6	7	8	Days	a.m.	p.m.
Monday	-1										
Tuesday	-1										
Wednesday	-1										
Thursday	-3	-3	-3	-3	-3	-3	-3	-3			
Friday	-1										
Saturday	-1										

Additional unspecific time requests

	Range	Number	Time request
*			

1.3.6.1.2 Unspecified time requests

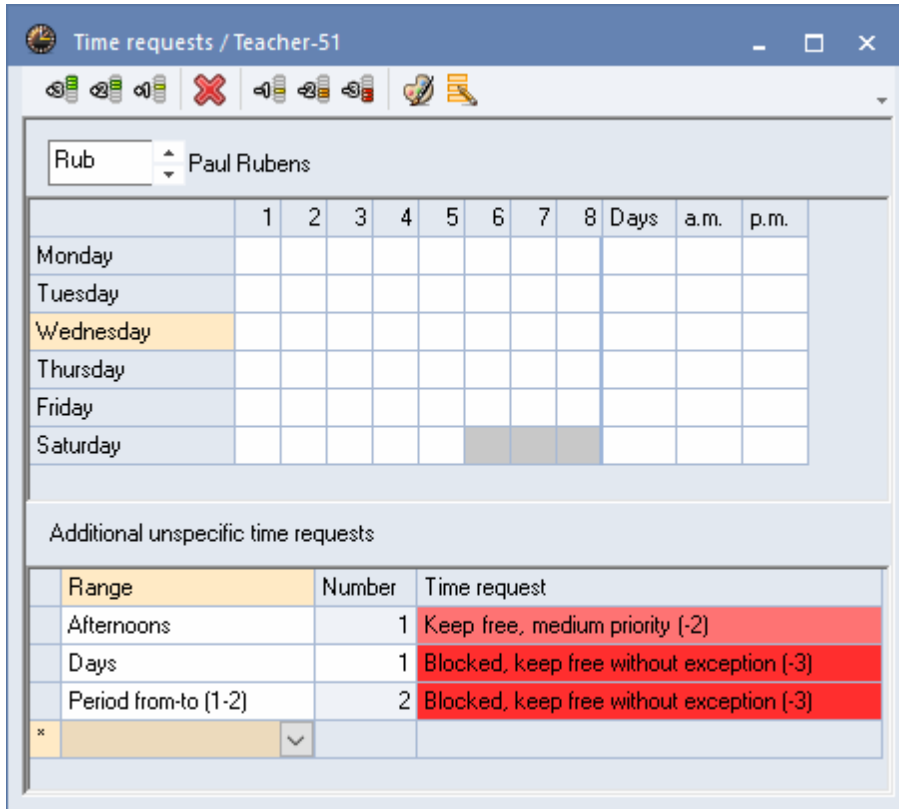
It is also possible to enter unspecified time requests. The actual decision when these time requests will become relevant is made during automatic scheduling - dependent on all other elements.

You can accept a teacher's request for a day off on any day on the week by entering it in the lower part of the window.

Warning:

Unspecified time requests apply **in addition to** specified requests, i.e. they are cumulative.

In the example teacher Rub should be granted a day off (-3) as well as a free afternoon if possible (-2) during the week.



You can also block individual periods under "Unspecified blocks". The entry in the example would mean that teacher Rub should have periods 1-2 free on two days of the week.

Tip: Unspecified time requests
 You should use unspecified time requests whenever possible. If a teacher needs a day off, for example, Untis will then determine the day (or half-day) to be kept free based on the specifics of the timetable. This avoids placing too many restrictions on scheduling and allows better timetables to be calculated.

1.3.6.2 Values

You can also enter and view the following values.

Target per week

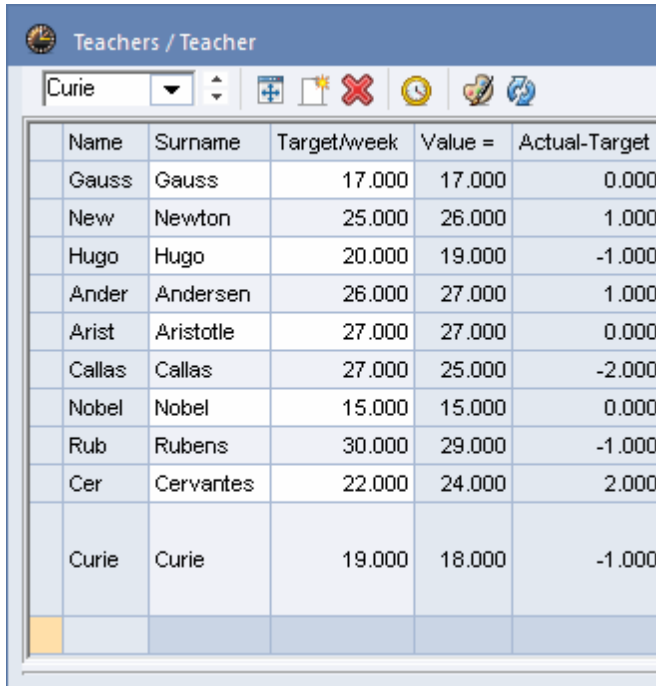
This is where you define how many periods a teacher should have each week.

Value =

This column displays how many periods per week have been allocated to each teacher.

Actual-target

This column displays the difference between actual and target periods. A negative value means that the teacher teaches too few periods.

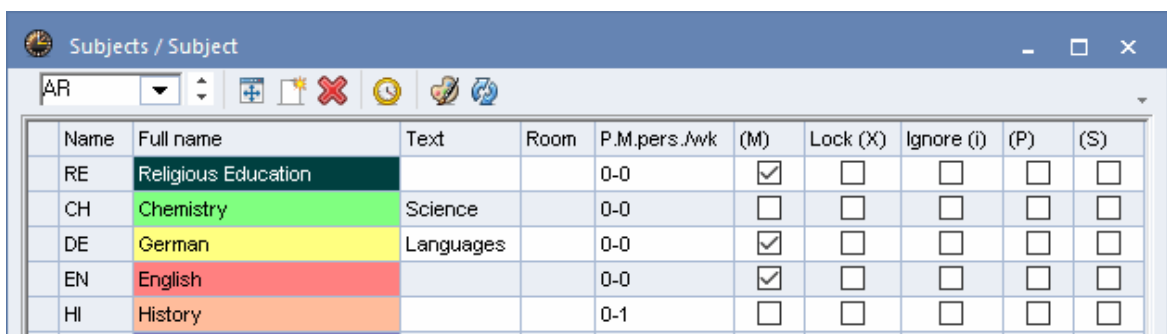


The screenshot shows a window titled "Teachers / Teacher" with a search bar containing "Curie". Below the search bar is a toolbar with icons for adding, deleting, and refreshing. The main area contains a table with the following data:

Name	Surname	Target/week	Value =	Actual-Target
Gauss	Gauss	17.000	17.000	0.000
New	Newton	25.000	26.000	1.000
Hugo	Hugo	20.000	19.000	-1.000
Ander	Andersen	26.000	27.000	1.000
Arist	Aristotle	27.000	27.000	0.000
Callas	Callas	27.000	25.000	-2.000
Nobel	Nobel	15.000	15.000	0.000
Rub	Rubens	30.000	29.000	-1.000
Cer	Cervantes	22.000	24.000	2.000
Curie	Curie	19.000	18.000	-1.000

1.3.7 Subjects

You can make the following entries for subjects:



The screenshot shows a window titled "Subjects / Subject" with a search bar containing "AR". Below the search bar is a toolbar with icons for adding, deleting, and refreshing. The main area contains a table with the following data:

Name	Full name	Text	Room	P.M.pers./wk	(M)	Lock (X)	Ignore (I)	(P)	(S)
RE	Religious Education			0-0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CH	Chemistry	Science		0-0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DE	German	Languages		0-0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EN	English			0-0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HI	History			0-1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Room

Some subjects (e.g. sport) always require a special subject room. These should be entered in this column.

P.m. periods per week

If a certain subject can or should be taught in the afternoon you can make the appropriate entries in the "P.M. pers/week" field. The figure shows that 0-0 has been entered for subject "DE" meaning that it may not be taught in the afternoon. There may be 2 periods of Graphics (0-2) and must be 2 periods of Cookery (2-2) for each class in the afternoons.

Main subject

You can use column "(M)" to define any subject as a main subject and make entries for classes to prevent too many main subjects being scheduled in a class timetable consecutively on the same day. A further consequence of this is that it helps you to influence the position of main subjects.

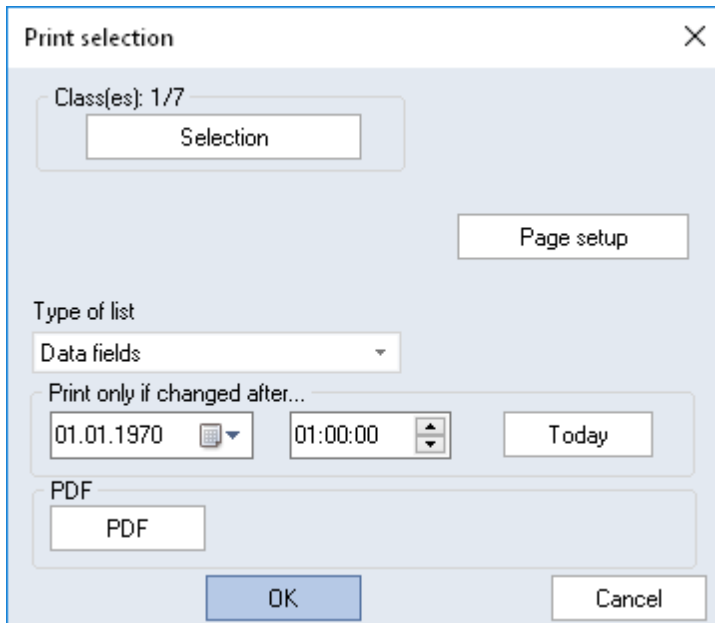
Please refer to chapter ["Weighting / Main Subjects tab"](#) .

Tip: Colours

Use the <Colour> button to assign colours to subjects that are then displayed in the timetable.

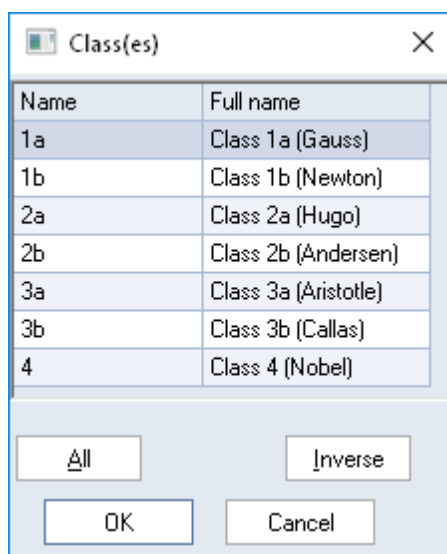
1.3.8 Printing master data and lessons

As a general rule when printing master data, all active fields that are visible in the grid view will be printed. You can print master data by clicking on the buttons <Print> or <Print Preview>.



Selection

You can then select the elements you wish to print in the Print selection dialogue, if you wish.



Page setup

This option allows you to set margin widths and font size and to restrict printing to the page width.

1.4 Lessons

A lesson is the combination of class, teacher, subject and room expressed in terms of a certain number of periods per week. You can also add various parameters to individual lessons such as scheduling double periods.

L.No.	Cl, Te.	UnSched Prds	Per	YrsPrds	Teacher	Subject	Class(es)	Subject room	Home room	Double pers.	Text	Block	Lock (X)	Ignore (I)	Student group	Weekly patt.	(D)	(R)	(2)
11	4, 1		2		Hugo	GEc	1a,1b,2a,2b		R1a				<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	2, 3		2		Ander	DS	1a	WS	R1a	1-1			<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
73	2, 2		3		Arist	PEG	1a,1b	SH2	R1a				<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31			5		Arist	MA	1a		R1a				<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33			5		Arist	EN	1a		R1a				<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35			2		Callas	MJ	1a		R1a				<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
39			2		Callas	AR	1a		R1a	1-1			<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
46			2		Nobel	RE	1a		R1a				<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
53			5		Rub	DE	1a		R1a				<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
63			2		Cer	BI	1a		R1a				<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Tip: Display total line

You can display a total line for the columns in a lessons view in order, for example, to check the total number of periods for teacher. To do this, click on the column heading row with the right mouse-button and select "Total".

1.4.1 Entering lessons

There are various types of lessons and the input must be adapted to follow the special criteria required.

- [Simple lessons](#)
- [Coupled lessons](#)
- [Lessons with one teacher and several classes](#)
- [Lessons with several teachers and several classes](#)
- [Lessons with several teachers, several classes and several subjects](#)
- [Double-period lessons](#)
- [Block lessons](#)
- [Multi-week lessons](#)

1.4.1.1 Simple lessons

Lesson 31 in class 1a is an example of a simple lesson:

L-No.	Cl,Te.	UnSched Prds	Per	YrsPrds	Teacher	Subject	Class(es)	Subject room	Home room	Double pers.
11	4, 1		2		Hugo	GEc	1a,1b,2a,2b		R1a	
7	2, 3		2		Ander	DS	1a	WS	R1a	1-1
73	2, 2		3		Arist	PEG	1a,1b	SH2	R1a	
31			5		Arist	MA	1a		R1a	
33			5		Arist	EN	1a		R1a	
35			2		Callas	MU	1a		R1a	
39			2		Callas	AR	1a		R1a	1-1
46			2		Nobel	RE	1a		R1a	
53		2	5		Rub	DE	1a		R1a	
63			2		Cer	BI	1a		R1a	

Teacher Aristotle takes class 1a in room R1a for five periods of maths each week.

If you wish to create a new lesson, enter the desired elements in the last, empty line.

Warning: Confirming input

Please make sure to confirm each entry using the <TAB> or <ENTER> keys. Unconfirmed input will not be saved when you exit the window.

1.4.1.2 Coupled lessons

Coupled lessons, also referred to as a coupling, is a lesson in which more than one teacher and/or more than one class participate. All lessons in the coupling are always held simultaneously. The 'Cl,Te' column shows how many classes and teachers are involved in the coupling.

The table view shows all lessons in the current view. When a lesson is part of a coupling you can display all information relating to the coupling, i.e. all coupling lines, by clicking on the '+' in the 'Cl,Te' column.

L-No.	Cl,Te.	UnSched Prds	Per	YrsPrds	Teacher	Subject	Class(es)	Subject room	Home room	Double pers.	Text	Block
7	2, 3		2		Ander	DS	1a	WS	R1a	1-1		
73	2, 2		3		Arist	PEG	1a,1b	SH2	R1a			
31			5		Arist	MA	1a		R1a			
33			5		Arist	EN	1a		R1a			
35			2		Callas	MU	1a		R1a			
39			2		Callas	AR	1a		R1a	1-1		
46			2		Nobel	RE	1a		R1a			
53		2	5		Rub	DE	1a		R1a			
63			2		Cer	BI	1a		R1a			

Tip: Show all couplings

You can open and close all couplings at once by clicking on the '+' in the 'Cl,Te' column header. (Keyboard short cut <Ctrl> + <SHIFT> + R)

1.4.1.2.1 Several classes

Lesson number 11 is an example of a so-called class coupling. Victor Hugo teaches classes 1a and 1b in the subject GEc in room R1a. If you wish to create such a coupling, simply enter classes 1a and 1b into the 'Class(es)' column separated by a colon.

Lesson No.	Cl,Te	Up,Se	Box	Vyr,Prds	Teacher	Subject	Class(es)	Subject room	Home room	Double pers.
11	2, 1		2		Hugo	GEc	1a,1b		R1a	
7	2, 3		2		Ander	DS	1a	WS	R1a	1-1
73	2, 2		3		Arist	PEG	1a,1b	SH2	R1a	
31			5		Arist	MA	1a		R1a	
33			5		Arist	EN	1a		R1a	
35			2		Callas	MU	1a		R1a	
39			2		Callas	AR	1a		R1a	1-1
46			2		Nobel	RE	1a		R1a	
53		2	5		Rub	DE	1a		R1a	
63			2		Cer	BI	1a		R1a	

Note: Input and display

If you e.g. enter details for lesson 11 in the view for class 1a, they will also appear in the view for 1b since it also participates in the lesson.

1.4.1.2.2 Several teachers

Lesson number 82 is a coupling with two teachers. All information will only be displayed when you click on the '+' in the 'Cl,Te' column.

The two teachers, Andersen and Gauss, take class 4 for maths together. This is team teaching, therefore the same room has been entered for both teachers.

L-No.	Cl,Te	UnSc	Per	YrsPrds	Teacher	Subject	Class(es)	Subject roo	Home room	Double pers	Text
5			2		Gauss	GA	4		Ps2	0-1	
17			2		Hugo	GEc	4		Ps2		
20			2		Hugo	HI	4		Ps2		
21		1	4		Hugo	DE	4		Ps2		
26			1		Ander	MU	4		Ps2		
32			2		Arist	PH	4	PL	Ps2		
45			2		Callas	AR	4		Ps2	1-1	
52			2		Nobel	RE	4		Ps2		
57			2		Rub	BI	4		Ps2		
58			2		Rub	CK	4		Ps2		
61			1		Cer	EN	4		Ps2		
74	1, 2		3		Curie	PEG	4	SH2	Ps2		
80	1, 2		2		Ander	DS	4	WS	Ps2	1-1	
82	1, 2		4		Ander	MA	4		Ps2		
					Gauss	MA	4		Ps2		

L-No.	Cl,Te	UnSc	Per	YrsPrds	Teacher	Subject	Class(es)	Subject roo	Home room	Double pers
45			2		Callas	AR	4		Ps2	1-1

If the two teachers are to teach in different rooms, you should enter two different rooms in the 'Home room' column.

Entering a teacher coupling

1. First enter the initial coupling line as a [simple lesson](#) .
2. Use the mouse to move the cursor to the 'Cl,Te' column until the '+' appears and click on it.
3. Another line in colour will be displayed with the same lesson number.
4. You can now enter details for the second line of the coupling.

Note: Increasing couplings

When you enter details into the empty, coloured coupling line, a further empty line will be displayed immediately with the same lesson number. You can thus increase the coupling as you wish.

1.4.1.2.3 Several classes, teachers and subjects

Generally speaking, each coupling line can be treated separately. There are no restrictions on your choice of master data, i.e. classes, teachers, subjects and rooms.

One classic example is sport, such as lesson 75 in the example. Here you will find a coupling with two classes split between two different teachers, subjects and rooms.

L-No.	CI,Te	UnSc	Per	YrsPrds	Teacher	Subject	Class(es)	Subject roo	Home room	Double per:	Text
11	4, 1		2		Hugo	GEc	1a,1b,2a,2b		R1a		
7	2, 3		2		Ander	DS	1a	WS	R1a	1-1	
73	2, 2		3		Arist	PEG	1a,1b	SH2	R1a		
					Rub	PEB	1a,1b	SH1	R1b		
31			5		Arist	MA	1a		R1a		

Warning:
 If there are a large number of couplings in a school, the way they are put together can have a major impact on the quality of the timetable. Poor coupling formation can prevent good scheduling.

1.4.1.2.4 Coupling/decoupling lessons

If you wish to couple two existing lessons, mark one of the lessons in the column 'CI,Te' with the right mouse-button and drag it over to the lesson with which you wish to link it. When you release the dragged lesson, both lessons will be coupled.

The top screenshot shows the 'Class 1a (Gauss) / Class' window with lesson 73 selected in the 'CI,Te' column. A red arrow indicates it is being dragged towards lesson 7. A 'Warning' dialog box is open, asking 'Do you want to couple these lessons?' for lessons 97, Curie, TX and 7, Ander, DS. The bottom screenshot shows the result: lesson 7 now has '2,1' in the 'CI,Te' column, and lesson 73 remains unchanged.

Decoupling coupled lessons is just as simple. Drag the coupling row that you wish to decouple out of the coupling by using the mouse in the 'CI,Le' column and drop it. The lessons are now decoupled.

1.4.1.3 Double periods

Lessons will be scheduled in single periods unless specified otherwise. If you wish to have or allow double periods you must enter this in the "Double pers." column of the lessons concerned. This

field is used to enter the minimum and maximum number of double periods that are allowed for a lesson:

The value '1-1' (double periods minimum and maximum value) has been entered for lesson number 39. This means that the lesson should be scheduled in one minimum/maximum double period i.e. in **exactly one**.

L-No.	+	Cl,Tc	UnSc	Per	YrsPrds	Teacher	Subject	Class(es)	Subject roo	Home room	Double per:	Text
39				2		Callas	AR	1a		R1a	1-1	

The value '0-1' has been entered for lesson number 33. This means that a 2-period lesson **can** be scheduled in a double period, but it is not an absolute requirement (minimum 0, maximum 1 double period).

L-No.	+	Cl,Tc	UnSc	Per	YrsPrds	Teacher	Subject	Class(es)	Subject roo	Home room	Double per:	Text
33				2		Arist	EN	1a		R1a	0-1	

The double period entry for lesson number 31 means that a double period must take place. The remaining three weekly periods will be scheduled as single periods.

L-No.	+	Cl,Tc	UnSc	Per	YrsPrds	Teacher	Subject	Class(es)	Subject roo	Home room	Double per:	Text
31				5		Arist	MA	1a		R1a	1-1	

Tip: Double period condition
 If possible try not to formulate the conditions for double periods too restrictively. This means, for example, entering '0-1' instead of '1-1' for two periods of lessons. This will allow automatic scheduling more possible variations, which can result in significantly better timetables.

1.4.1.4 Blocks

More than 2 periods scheduled consecutively are called a block of periods.

If you wish to schedule 3 periods consecutively, enter '3' in the column 'Block'.

L-No.	+	Cl,Tc	UnSc	Per	YrsPrds	Teacher	Subject	Class(es)	Subject roo	Home room	Double per:	Text	Block
39				6		Callas	AR	1a		R1a	1-1		3

Tip: Combination block and double period requirement
 You also may combine double periods and blocks if the number of periods allows for this. Lesson 39 is held when entered this way as 1 single period, 1 double period and one block of three periods.

If you want to schedule a 6-period lesson in two blocks of 3, simply enter '3,3'.

L-No.	Cl,Te	UnSc	Per	YrsPrds	Teacher	Subject	Class(es)	Subject roo	Home room	Double per:	Text	Block
39			6		Callas	AR	1a		R1a	1-1		3,3

1.4.1.5 Multi-week lessons

If you want to schedule a lesson to take place only every two or three weeks, then select the respective pattern in the 'Weekly pattern' column. The lesson will then only be scheduled in the week specified and a different lesson can be scheduled at the same place in the other week.

	Gauss	New	Hugo	Ander	Arist	Calla	Nobel	Rub	Cer	Curie
Mo-1		4 SH1 PEB	3b HI		1a R1a EN	2a R2a MU	2b R2b RE	3a R3a HI	1b R1b BI	4 SH2 PEG
Mo-2		2b R2b MA	3b GEc		1b R1b MA	1a R1a MU	2a R2a RE	4 CK	3a R3a EN	
Mo-3		2a R2a MA	4 R3a HI		3a,3 SH2 PEG	2b R2b AR	1b R1b RE	3a,3 SH1 PEB	1a R1a BI	
Mo-4		3b PL PH	4 R1a DE	3a R3a GA	1a,1 SH2 PEG			1a,1 SH1 PEB	2a R2a DE	3a TVV TX
Mo-5		3b R1a MA	3a R3a MA			2b R2b MU		1b R1b DE	2a R2a EN	
Mo-6						4 R2a AR				
Mo-7									3a R3a BI	
Mo-8					4 PL PH					

1.4.1.6 Other entries for lessons

'(X) Lock', '(i) Ignore' and 'Text'

The way 'Lock (X)', 'Ignore (i)' and 'Text' work were explained in chapter '[Entries for all master data elements and lessons](#)'.

(D) Respect double periods

Checking this box means that the number of allowed (desired) double periods must be respected for this lesson at all costs by the optimisation. This also applies when double periods have been excluded for a lesson ('0-0' in the field 'Double periods min., max.').

Warning:

Please use this flag sparingly (if in doubt, please do not use it at all). It places a severe restriction on the optimisation - especially for subjects with a large number of periods. Before using it, it is advisable to increase the corresponding weighting parameter ('Avoid errors with double periods') to 5 if necessary (please refer to chapter '[Weighting | Period Distribution](#)' tab).

Please also note that an entry in the field 'Double periods min., max.' is required in order for double periods to be handled correctly.

Setting the (D) flag excludes the use of the (2) flag - see next item.

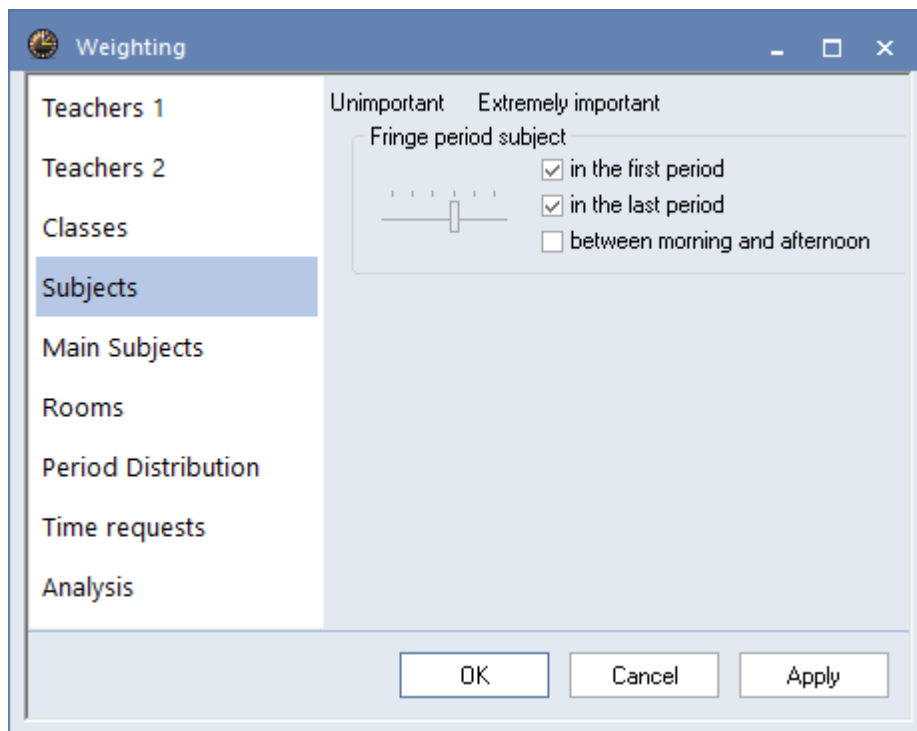
(2) Subject allowed more than once per day (2)

Untis optimisation assumes that a subject may be scheduled for a class only once per day except when [blocked periods](#) or [double periods](#) are desired. You can use this flag to override these - highly weighted - boundary condition. Untis will then be allowed to schedule the subject as is assumed appropriate.

(R) Scheduling of fringe periods

Some subjects are not attended by all students of a class. Therefore they should preferentially be scheduled at the beginning or the end of a halfday, hours which are outside of the core timetable and are called fringe periods. Students not attending these subjects can either start school later, leave school earlier or their lunch break is longer.

According to the following weighting settings, fringe periods are preferably scheduled in the first or the last period of the day, however, not between the morning and the afternoon.



Student group

When a group is divided you can enter an appropriate group name in this field.

Warning: Unique student group

The names of the student groups must be unique school wide, i.e. you cannot enter 'Group 1' for both lessons, English and French, although the students in this group are the same.

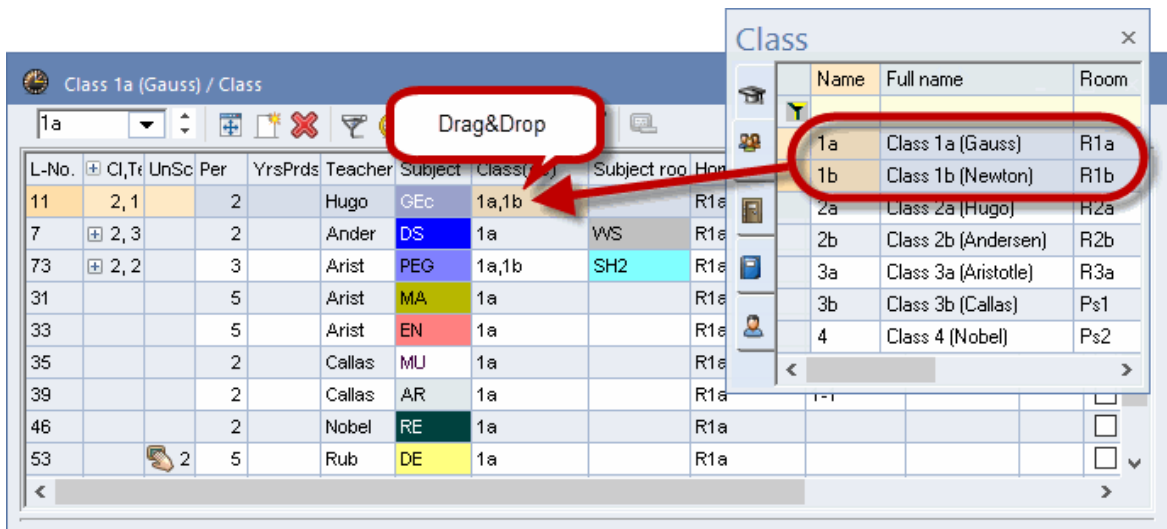
Note: Automatic assignment of student group name

If you go to 'Settings | Miscellaneous| Customise' and check the box 'Create student groups automatically', Untis automatically assigns a name to the student group, which is a combination of the classes and the subject involved.

When transferring data to WebUntis, the student groups used in Untis are also transferred. In WebUntis you need to assign students to the individual student groups.

1.4.1.7 Input with element-rollup

The tab 'data' contains the <Element-Rollup> button. You can use the element-rollup to enter elements involved in a lesson into the desired field by drag&drop or by double-clicking.



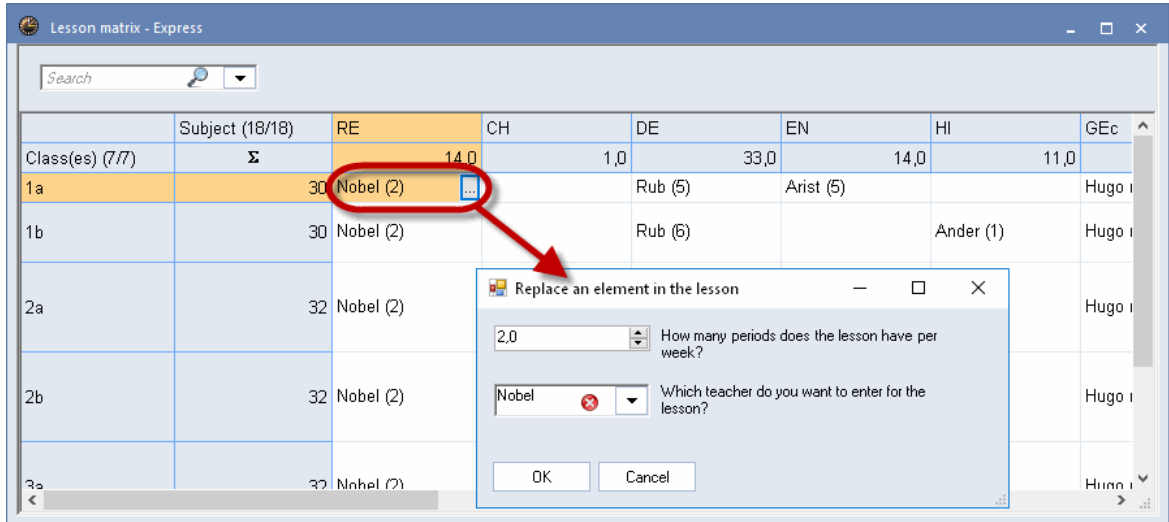
1.4.2 Lesson planning

Untis Express provides support when allocating subjects. To do this, use the field 'Target/Week' in teacher master data to enter how many periods each teacher is to teach each week.

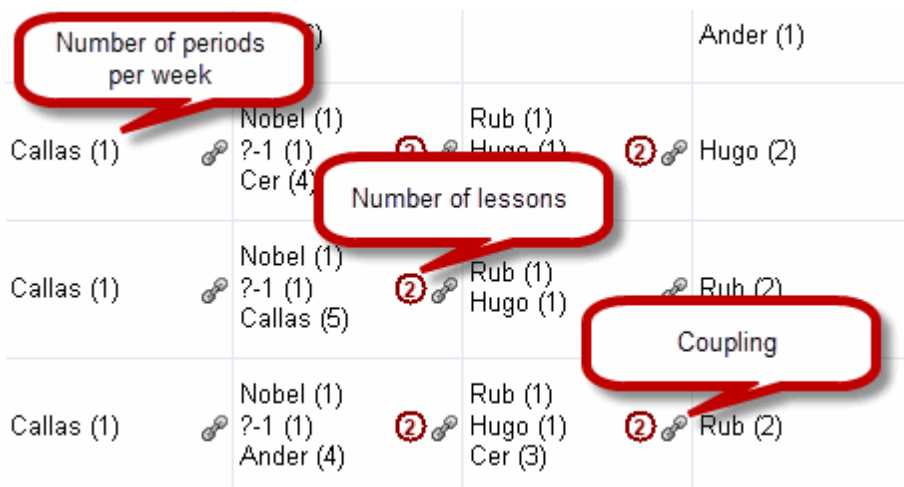
Name	Surname	Text	Room	NTPs targ	Periods/d	Lunch brex	Personnel Nc	Consec. pers	Lock	Ign	Target/W	Value =	Actual-T
Ander	Andersen			0-1	4-6	1-3		6	<input type="checkbox"/>	<input type="checkbox"/>	25.000	27.000	2.000
Arist	Aristotle			0-1	4-6	1-2		6	<input type="checkbox"/>	<input type="checkbox"/>	25.000	27.000	2.000
Callas	Callas			0-1	4-6	1-2		5	<input type="checkbox"/>	<input type="checkbox"/>	25.000	25.000	0.000
Cer	Cervantes			0-1	4-7	1-2		4	<input type="checkbox"/>	<input type="checkbox"/>	25.000	24.000	-1.000
Curie	Curie	maternal leave starts on 10. Nov.		0-1	4-7	1-3		6	<input type="checkbox"/>	<input type="checkbox"/>	20.000	18.000	-2.000
Gauss	Gauss			0-3	2-6	1-2		4	<input type="checkbox"/>	<input type="checkbox"/>	17.000	17.000	0.000
Hugo	Hugo			0-1	4-7	1-2		6	<input type="checkbox"/>	<input type="checkbox"/>	20.000	19.000	-1.000
New	Newton			0-1	4-6	1-2		5	<input type="checkbox"/>	<input type="checkbox"/>	25.000	26.000	1.000
Nobel	Nobel			0-1	4-6	1-2		5	<input type="checkbox"/>	<input type="checkbox"/>	15.000	15.000	0.000
Rub	Rubens			0-1	4-7	1-3		3	<input type="checkbox"/>	<input type="checkbox"/>	28.000	29.000	1.000

Untis Express will then display in the 'Value =' and 'Actual-target' fields how many periods the teacher in question currently teaches or whether he/she is under-/overemployed.

You also have the opportunity to access a summary of all lessons at your school in the form of a matrix by clicking on the 'Data' tab and the button <Lesson planning>. If you click in a field, Untis Express will allow you to change the number of weekly periods or the assigned teacher.



The symbols in the matrix serve as information in the final version of entered lessons:



1.4.3 Lessons view toolbar

The following functions are available via buttons in the lessons window toolbar:



Resize window

This function allows you to quickly adjust the window to its 'optimum' size.

New / Delete

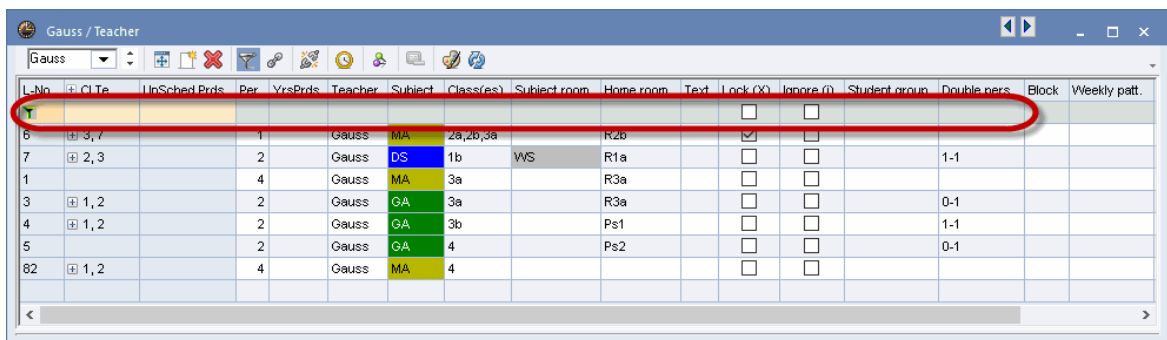
These buttons enable you to create a new lesson or to delete a lesson.

Tip: Deleting a coupling line

You can delete a coupling line by activating it, holding the <Ctrl> key pressed and then clicking on the <Delete> button.

Filter

Clicking on the <Filter> button causes an additional row to be displayed in the table in which you can enter the element that you wish to filter by.



L.No	Cl Te	UpSchedPrds	Per	YrsPrds	Teacher	Subject	Classes	Subject room	Home room	Text	Lock (X)	Ignore (I)	Student group	Double pers	Block	Weekly patt.
6	3, 7		1		Gauss	MA	2a,2b,3a		R2b		<input checked="" type="checkbox"/>	<input type="checkbox"/>				
7	2, 3		2		Gauss	DS	1b	WS	R1a		<input type="checkbox"/>	<input type="checkbox"/>		1-1		
1			4		Gauss	MA	3a		R3a		<input type="checkbox"/>	<input type="checkbox"/>				
3	1, 2		2		Gauss	GA	3a		R3a		<input type="checkbox"/>	<input type="checkbox"/>		0-1		
4	1, 2		2		Gauss	GA	3b		Ps1		<input type="checkbox"/>	<input type="checkbox"/>		1-1		
5			2		Gauss	GA	4		Ps2		<input type="checkbox"/>	<input type="checkbox"/>		0-1		
82	1, 2		4		Gauss	MA	4				<input type="checkbox"/>	<input type="checkbox"/>				

Note: Several filter criteria

You can also filter using more than one criteria. Those elements will be displayed that meet all criteria.

Coupling/extended de-coupling

This function allows you to couple lessons or convert the individual coupling lines of a coupled lesson into independent lessons (with their own lesson numbers).

Time requests

As for master data, a time request can also be specified for lessons. The way this works has already been explained in the chapter '[Specific time requests](#)'.

Lock this display

Activating this function (button pressed) causes the relevant (form) view to be protected from events in other windows. This means that if the lessons display shows class 1a and an open timetable view is switched to, say, class 3b, the lessons view will continue to display class 1a (please also refer to chapters "Timetable interaction" and "Lock type").

Colour coding

You can use the <Colour coding> button to assign any foreground and background colour to a lesson. As with master data, these colours are then used when the lesson is displayed on the screen and when the timetable is printed and when scheduling the timetable.

1.5 Automatic scheduling

You must specify to what degree general conditions should be considered before you can start automatic scheduling. This is done in the relevant window, via 'weighting' on the 'Start' tab.

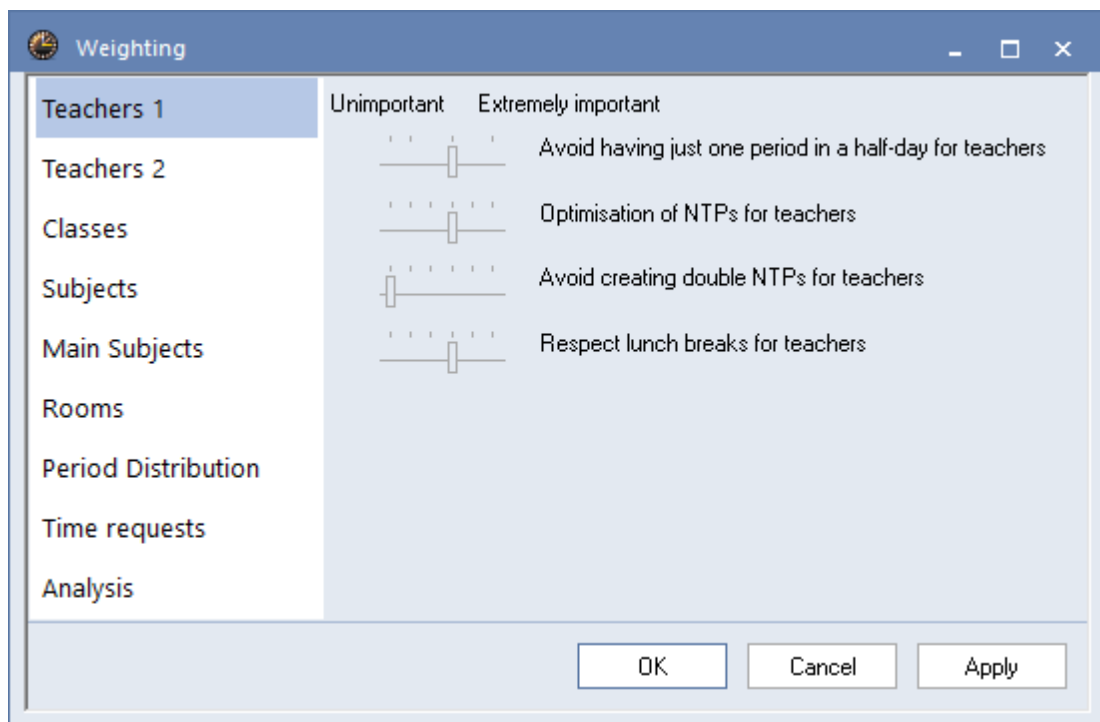
Only then you should launch the [optimisation](#) and then finally analyse the results using the [diagnosis](#) function.

1.5.1 Weighting

You have the possibility to enter a number of parameters for master data and for lessons. You must still specify which of these parameters are important for your school and which ones are not so important.

You can do this using the slider controls for the individual weighting parameters, with the weighting factors ranging from unimportant (0) to extremely important (5).

Example: If the entered condition for observing teachers' lunch breaks is important, move the slider control 'Respect lunch breaks for teachers' to the right (e.g. to 4).



1.5.1.1 Weighting distribution

The weighting profile is important for achieving a good and well-balanced timetable. Priorities 4 and 5 should not be used too frequently.

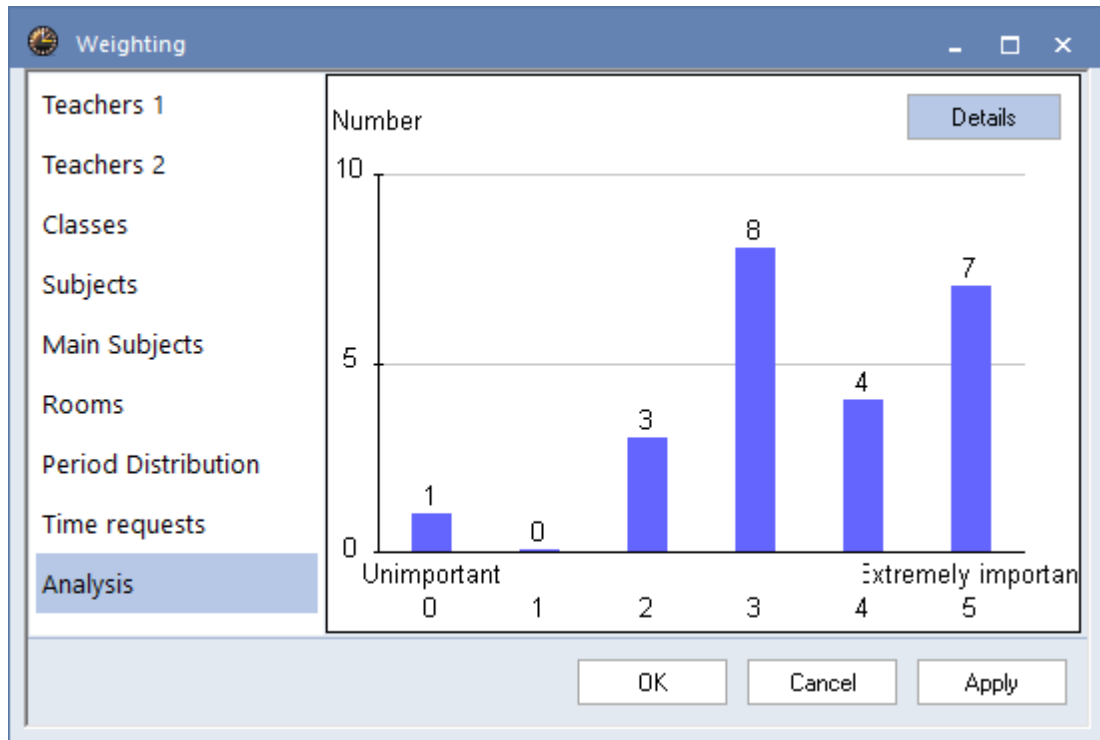
Warning: Priority 5

Please try to use priority 5 for as few weighting factors as possible as otherwise this will not result in a satisfactory timetable.

Weighting analysis

The weighting analysis shows the distribution of weighting factors and gives detailed information on

weighting settings that could cause problems for optimisation.



Note: tooltip for bar diagram

By moving the mouse over one of the bars, the weighting items of the respective number is displayed.

In our example the <Details> window displays the following messages:

The 'Analysis of the weightings' dialog box displays the following table of alerts:

No.	Text
1	7 of the weightings are set to the maximum value. Too many weightings with the maximum value worsen the optimisation result.
2	The weighting 'Avoid errors with double periods' is set to the maximum value. Lessons for which the desired way of scheduling cannot be kept (single period, double period, block) will remain unscheduled.

An 'OK' button is located at the bottom right of the dialog box.

1.5.1.2 Weighting parameters

You can set weighting parameters according to topic on the following tabs:

- [Teachers 1 tab](#)
- [Teachers 2 tab](#)
- [Classes tab](#)
- [Subjects tab](#)
- [Rooms tab](#)
- [Period Distribution tab](#)
- [Time Requests tab](#)

The [Analysis](#) tab shows you how priorities are distributed.

1.5.1.2.1 Teachers 1 tab

Avoid having just one period in a half-day for teachers

When a teacher teaches in a [half-day](#) this weighting parameter means that he/she should have more than one period in that time.

Optimisation of NTPs for teachers

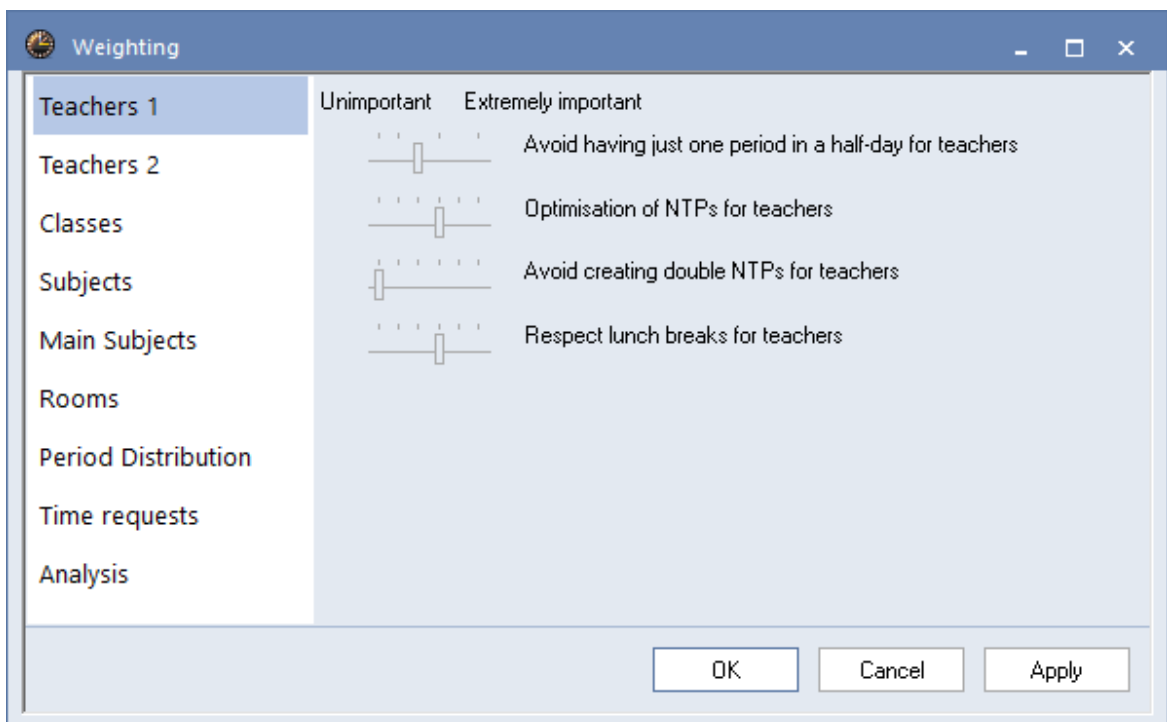
You defined minimum and maximum number of non-teaching periods in the [master data of teachers](#) . This setting controls how these values should be respected.

Avoid creating double NTPs for teachers

Besides controlling individual NTPs, you can also set an additional condition to set additional penalty points for double non-teaching periods.

Respect lunch breaks for teachers

This parameter works in connection with the minimum and maximum values for [lunch break](#) entered in the master data of teachers.



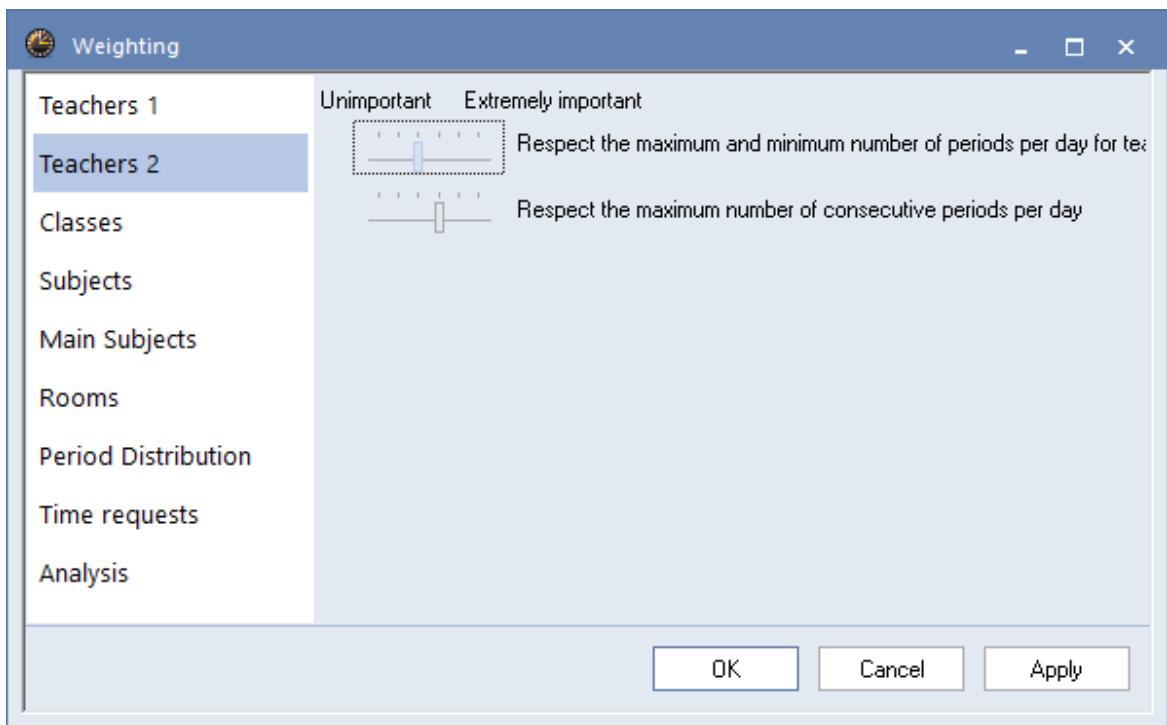
1.5.1.2.2 Teachers 2 tab

Respect the maximum and minimum number of periods per day for teachers

Controls how the maximum and minimum number of periods per day for teachers set in the [master data of teachers](#) will be respected.

Respect the maximum number of consecutive periods per day

Controls how the maximum number of consecutive periods per day set in the [master data of teachers](#) will be respected.



1.5.1.2.3 Classes tab

Avoid non-teaching periods (NTPs)

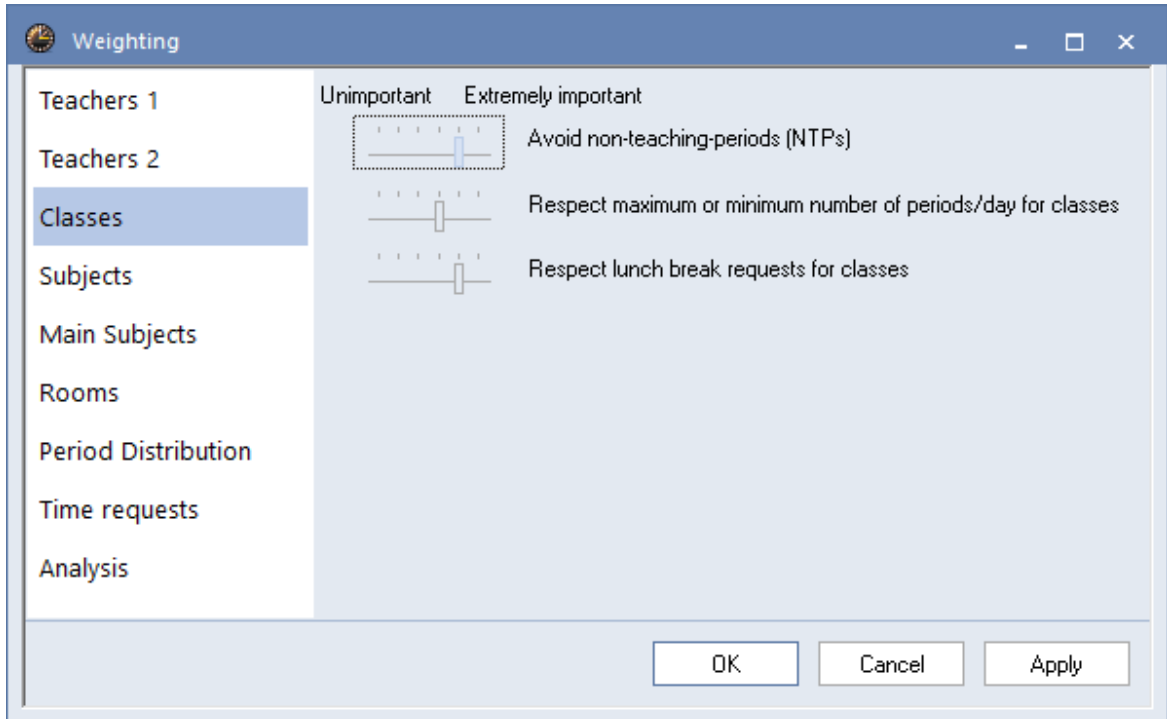
Controls whether non-teaching periods for classes should be avoided.

Respect the maximum or minimum number of periods/day for classes

Controls how the values entered in the [master data of classes](#) will be respected.

Respect lunch break requests for classes

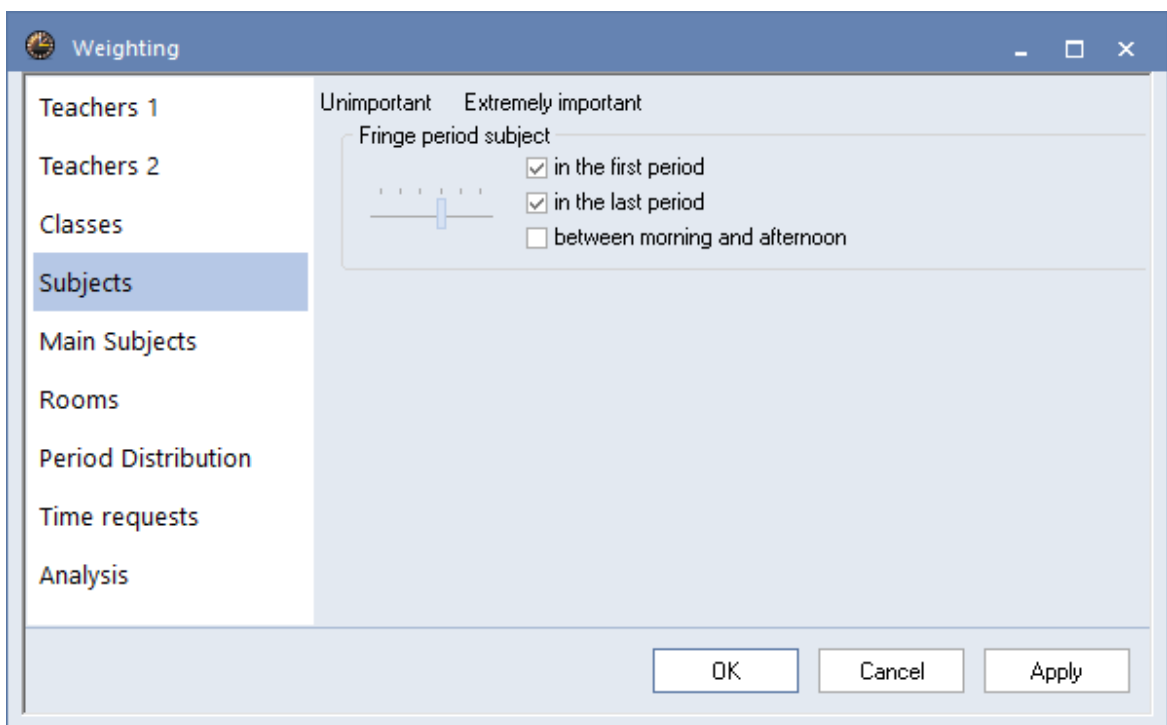
Controls how the minimum and maximum length of a lunch break set in the [master data of classes](#) will be respected.



1.5.1.2.4 Subjects tab

Fringe period subject

Here you can specify where the lessons marked with (F) for fringe period in the [lessons of the classes](#) should preferentially be scheduled.



According to this weighting fringe subjects are preferentially scheduled in the first or the last period of the day, however not between the morning and the afternoon periods.

1.5.1.2.5 Main Subjects tab

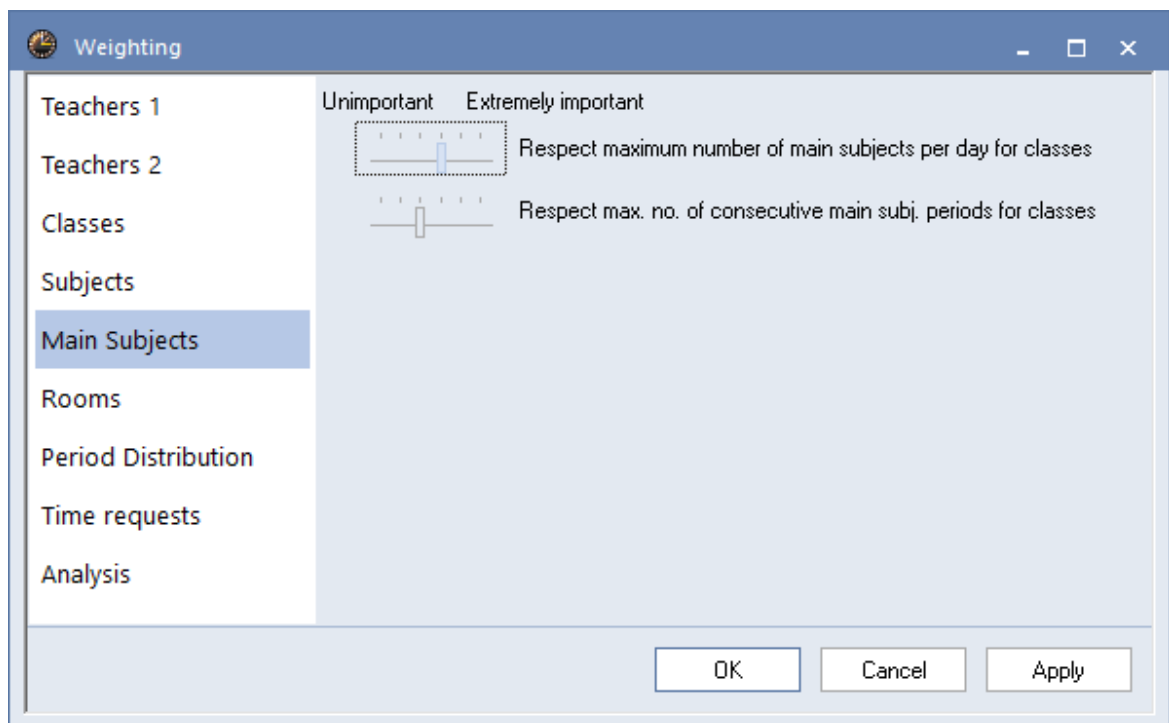
Main subjects are defined as such in the [master data of subjects](#) .

Respect the maximum number of main subjects per day for classes

Controls how the maximum number of main subjects per day set in the [master data of classes](#) will be respected.

Respect max. no. of consecutive main subjects per day for classes

You can specify in the [master data of classes](#) how many main subjects may take place consecutively for this class. Use this setting to control the importance of this parameter.



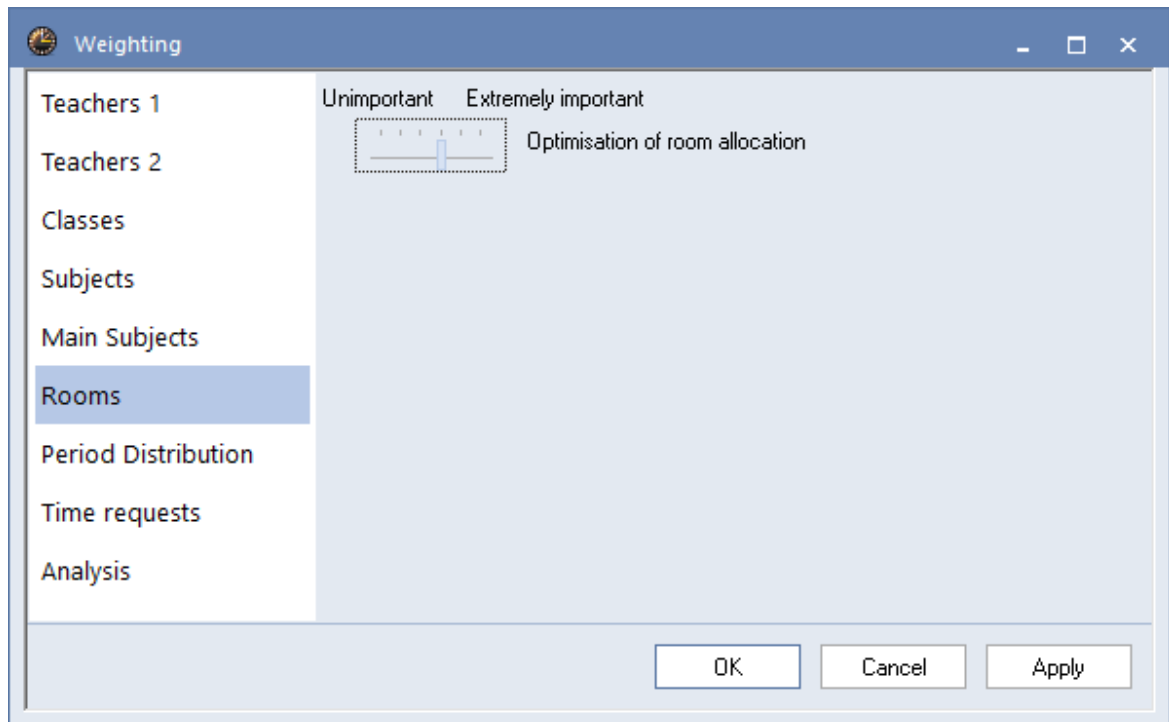
1.5.1.2.6 Rooms tab

Optimisation of room allocation

In the [master data of rooms](#) you can allocate a value between 0 and 4 as [room weighting](#) for each room. 0 means that it is unimportant whether a lesson takes place in this room or its alternative room because no special equipment is required for the lesson, for example. However, a value of 4 means that it only makes sense to schedule the lesson if the room or its [alternative room](#) is free.

For example, chemistry lab equipment is essential, if a lot of experiments are to be performed in a chemistry lesson. Another example is PE, which is only possible in the sports hall.

If a home room and a subject room have been specified for a lesson, only the subject room will be considered during optimisation, if the slider control is on 4 or 5.



Warning: Room - extremely important

If the slider control for this weighting setting is on position 5 ('extremely important') or 4 ('very important'), and if the room weighting for the subject room is 4, a period cannot be scheduled if no suitable subject room can be found.

1.5.1.2.7 Period Distribution tab

The same subject cannot be taught more than once on the same day

A subject may only be scheduled once per day (even when it occurs in various couplings). Periods will go unscheduled if this condition cannot be respected and if the slider control is on 5.

Avoid errors with double periods

There are two types of double period errors in Untis: the breaking up of intended double periods and the *coincidental* creation of unintended double periods when the same subject is scheduled in consecutive periods. Optimisation gives more importance to respecting intended double periods.

Periods will go unscheduled if the 'Avoid errors with double periods' condition cannot be respected and if the slider control is on 5.

The flag (2) 'Subject allowed more than once a day' for a lesson sets the weighting for 'Avoid errors with double periods' to 0 ('unimportant') while the flag '(D) Strictly respect double periods' boosts its importance. This boost may go so far as to prevent a lesson from being scheduled if the double period condition cannot be respected.

Warning: Flag (D)

You should only use flag (D) explicitly in exceptions. Excessive use will impair optimisation results.

2 periods/week - subjects not on consecutive days

This weighting factor refers to lessons with 2 weekly periods (no double period) and is intended to

distribute lessons evenly over the week. A high weighting factor prevents the lesson periods being held on consecutive days. It also prevents a period being scheduled on the last day of the week and another on the first day of the following week.

3 periods/week - subjects not on consecutive days

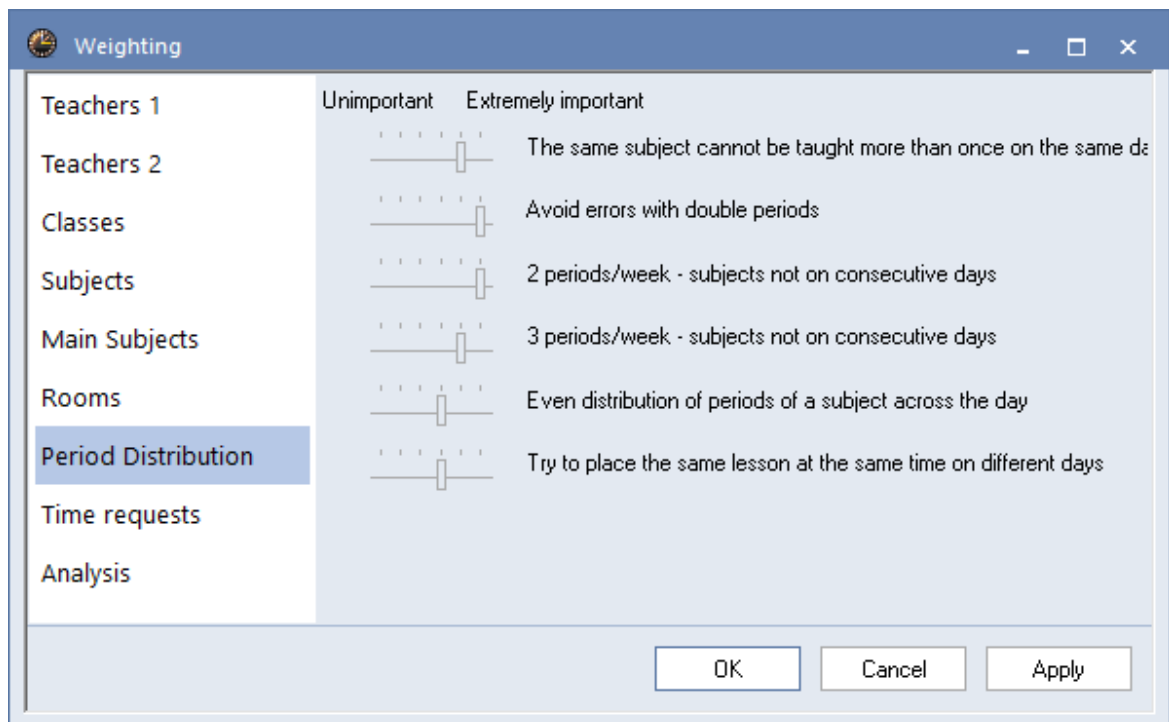
This weighting factor functions in a similar way to the previous weighting factor, but here for 3 periods in the week.

Even distribution of periods of a subject across a day

If, for example, a class has a subject in the third period on Mondays, the third period should be avoided on other days of the week. The following weighting factor achieves the opposite.

Try to place the same lesson at the same time on different days

If, for example, a class has a subject in the third period on Mondays the subject should also be taught in the third period on other days.



1.5.1.2.8 Time requests tab

You can enter time requests in the master data windows or in lessons windows by clicking on the corresponding button in the toolbar.

Time requests for teachers

Controls [time requests](#) specified in the [master data of teachers](#) .

Time requests for classes

Controls [time requests](#) specified in the [master data of classes](#) .

Time requests for subjects

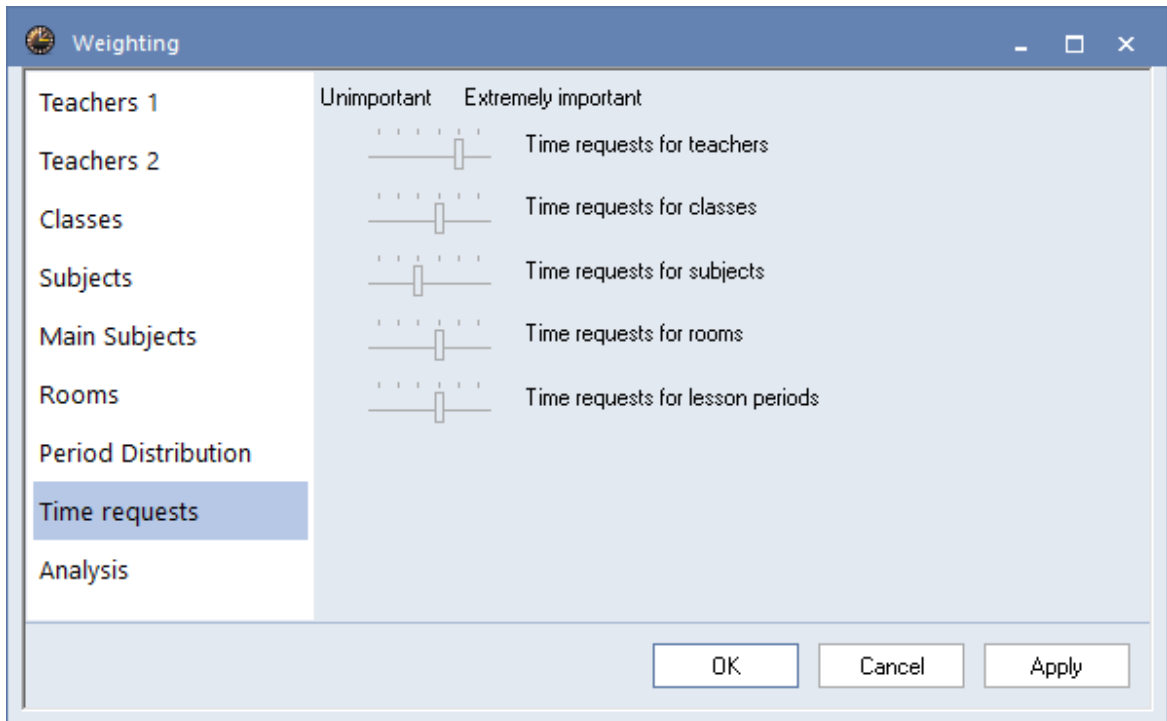
Controls [time requests](#) specified in the [master data of subjects](#) .

Time requests for rooms

Controls [time requests](#) specified in the [master data of rooms](#) .

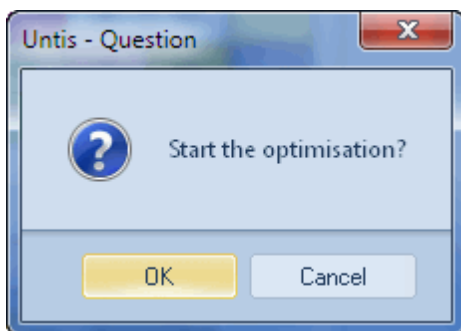
Time requests for lessons periods

Controls [time requests](#) specified in the [lessons](#) .



1.5.2 Optimisation

Via the button 'Optimisation' on the 'Start' tab you initialise the automatic generation of a timetable.

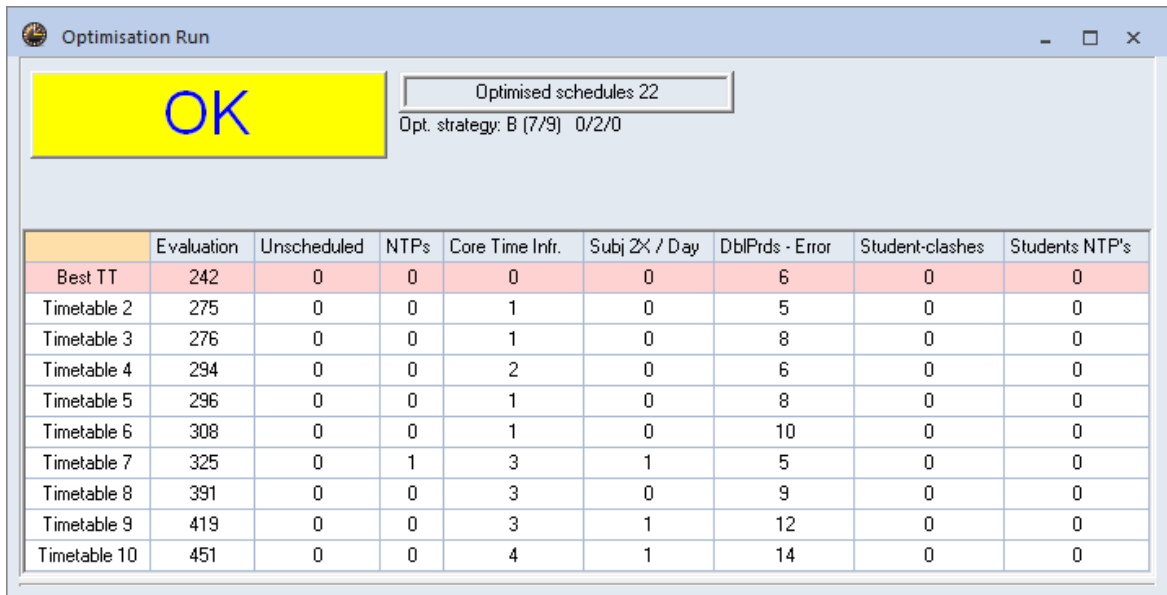


After confirming the prompt the [optimisation](#) of the timetable will start, where an [evaluation](#) will provide you with initial information on the quality of the timetable.

1.5.2.1 Optimisation

The optimisation run is the "heart" of Untis and is responsible for scheduling lessons automatically. As a general rule optimisation consists of two parts, placement optimisation and swap optimisation. During placement optimisation the various lesson periods are inserted into the initially empty timetable beginning with the most difficult lessons. The timetable is gradually filled. The swap optimisation then attempts to switch the periods about in order to improve the result.

10 separate timetables are calculated during optimisation.



	Evaluation	Unscheduled	NTPs	Core Time Infr.	Subj ZX / Day	DbIPrds - Error	Student-clashes	Students NTP's
Best TT	242	0	0	0	0	6	0	0
Timetable 2	275	0	0	1	0	5	0	0
Timetable 3	276	0	0	1	0	8	0	0
Timetable 4	294	0	0	2	0	6	0	0
Timetable 5	296	0	0	1	0	8	0	0
Timetable 6	308	0	0	1	0	10	0	0
Timetable 7	325	0	1	3	1	5	0	0
Timetable 8	391	0	0	3	0	9	0	0
Timetable 9	419	0	0	3	1	12	0	0
Timetable 10	451	0	0	4	1	14	0	0

The optimisation is finished as soon as a blue "OK" is displayed on a yellow background in the optimisation window. The time needed for optimisation depends on the computing power of your PC and the size of your school.

Tip: Switching between optimisation results

Following optimisation you will see a list of all optimisation results in the optimisation dialogue. As long as this window is open, you can conveniently switch to another result by clicking on the desired timetable in this list. This plan will be displayed directly in the timetable windows and in the [diagnosis](#) (when you click on <Refresh list>).

1.5.2.2 Evaluation

Certain parameters in the optimisation dialogue window provided information on the quality of the timetable. The [diagnosis](#) is available for a more thorough analysis.

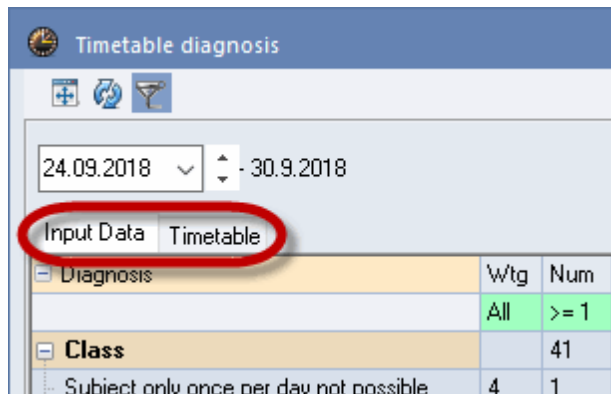
	Evaluation	Unscheduled	NTPs	Core Time Infr.	Subj ZX / Day	DbIPrds - Error
Best TT	242	0	0	0	0	6
Timetable 2	275	0	0	1	0	5

Each violation of one of your specifications (e.g. master data or lesson entries) will be given penalty points. These points are rated according to the weighting values you specified, and this finally results in a total of penalty points for your school's timetable as an indication of the quality of the timetable. The lower the total, the fewer violations of your specifications.

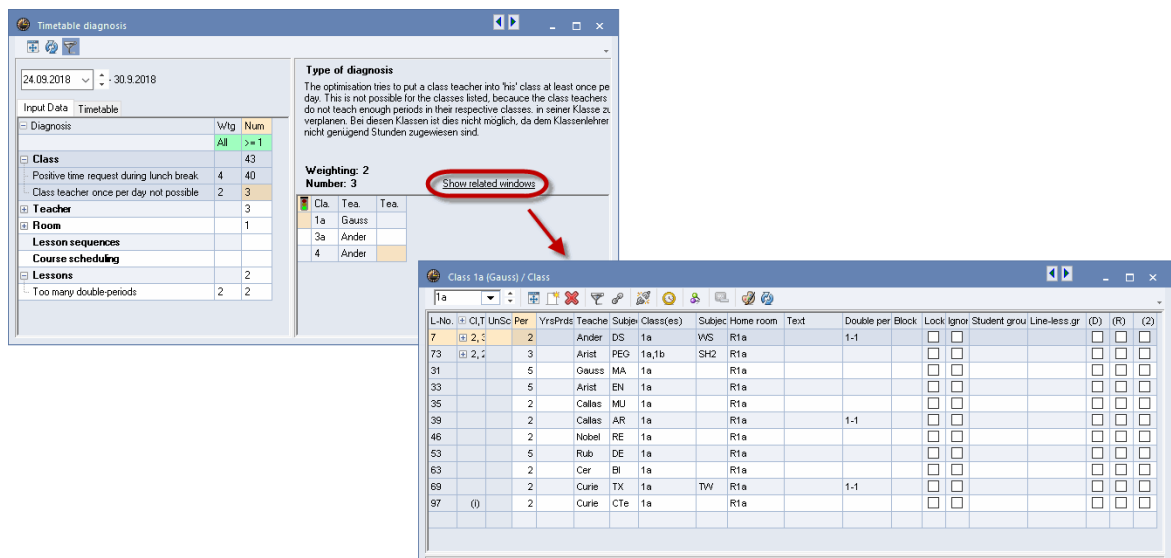
1.5.3 Diagnosis

The diagnosis assists you in checking your input data regarding consistency and to analyse generated timetables according to different criteria.

Diagnosis items for 'input data' and 'Timetable' have individual tabs on the left side of the window..



The diagnosis window consists of two sections: on the left you see the diagnosis selection pane, on the right the diagnosis details pane. You now can choose any diagnostic item in the diagnosis selection pane and the details pane will display the lesson and the class which is related to it.



Note: Show related windows
The right part of the diagnosis window shows an explanation to each diagnosis item. By clicking on the link 'Show related windows' the windows relevant to this diagnosis item open.

Furthermore this window has its own menu bar:

- Resize window: The diagnosis window is adjusted to the ideal size similar to the buttons in the master data and lesson windows.

-Refresh window: the diagnosis window is refreshed.

-Filter: By clicking on this button a filter line is displayed which enables you to filter the diagnosis items just like the button in the master data and lessons window. The diagram below, for instance, shows only diagnosis items with at least one violation and whose weighting is a least 1.

Timetable diagnosis

24.09.2018 - 30.9.2018

Input Data Timetable

Diagnosis	Wtg	Num
All		>= 1
Class		41
Subject only once per day not possible	4	1
Positive time request during lunch break	4	40
Teacher		1
Lessons with teachers without rooms	*	1

Hide diagnosis items

The diagnosis displays possible errors of input data and in the timetable. In some cases the data was intentionally entered this way and therefore it should not be displayed any more. Right-click on the respective item in the list and select 'Ignore this flaw'. This item is now marked with a white 'x' in a red circle. Additionally you can select 'Do not show ignored breaches' and the marked violations are not displayed any more.

Timetable diagnosis

24.09.2018 - 30.9.2018

Input Data Timetable

Diagnosis	Wtg	Num
All		>= 1
Class		41
Subject only once per day not possible	4	1
Positive time request during lunch break	4	40
Teacher		1
Lessons with teachers without rooms	*	1
Room		2
2 teachers in the same room	*	2
Lesson sequences		
Course scheduling		
Lessons		

Type of diagnosis
You have entered the same room more than once in different coupling-row of the same lesson. derselbe Raum eingetragen.

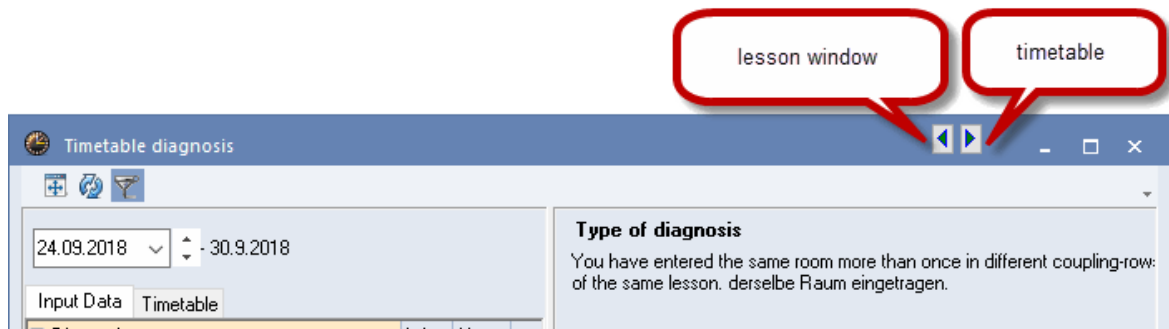
Weighting: *
Number: 2 [Show related windows](#)

L-No.	Rm.	Tea.	Tea.
6	Ps1	Rub	Hugo
7	W3	Ander	

Ignore this flaw
Reset
Do not show ignored breaches
Do not show resolved flaws

Note: Additional windows

You can use the two small arrows at the top of the window to open a lessons window and a timetable, which allows you to analyse the violations quickly and easily.</p>



1.6 Manual scheduling

For [placing unscheduled periods](#) as well as [moving](#) and [deleting](#) scheduled periods Untis Express provides an absolutely simple possibility for which does not even involve learning new windows.

There are several functions for manual scheduling in the timetable:

- [scheduling periods](#)
- [locking periods](#)
- [moving periods](#)
- [deleting periods](#)
- [allocating rooms](#)

Tip: Closing all windows

Use the Ctrl + K key combination if you wish to close all open windows quickly.

1.6.1 Shifting periods

There are three possibilities for moving periods in the timetable:

1. Moving to an empty period
2. Swapping periods
3. Scheduling periods with clashes

Moving to an empty period

If you drag a period away from its position with the mouse, potential so far empty locations suitable for a move will be marked green.

	Mo	Tu	We	Th	Fr	Sa
1	MU	AR	GEc.	DE	DE	
2	RE	AR	HI	EN	BI	DE
3	MA	PEB.	HI	MA	PH	EN
4	DE	BI	RE	PH	EN	GEc.
5	EN	MA	*CH.		MA	
6					GA.	
7					TX.	
8					TX.	

Possible (free) positions for a shift of "RE" (Mo,3)

Swapping periods

If you drag a period away from its position with the mouse, potential swap partners will be marked green.

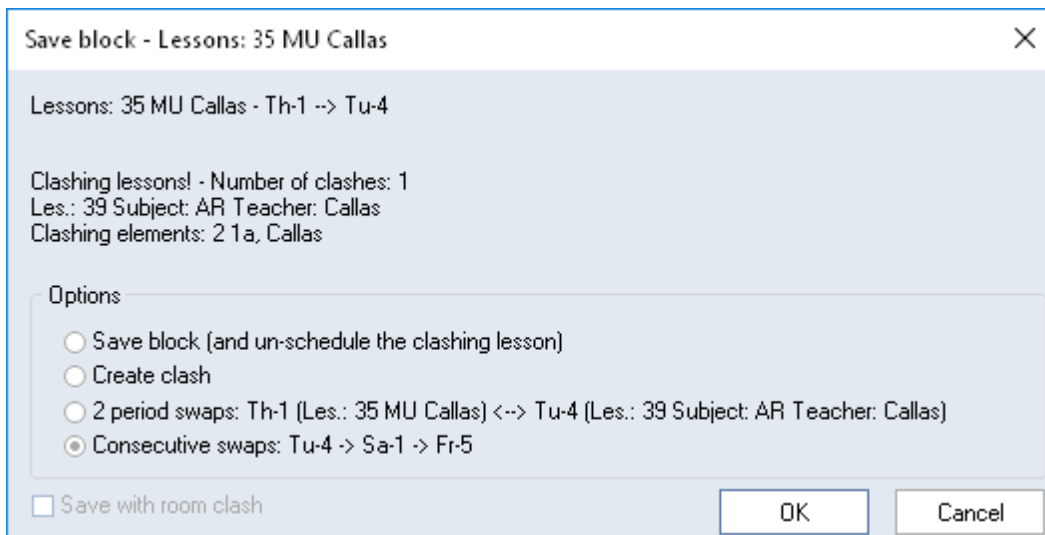
	Mo	Tu	We	Th	Fr	Sa
1	MU	AR	GEc.	DE	DE	
2	RE	AR	HI	EN	BI	DE
3	MA	PEB.	HI	MA	PH	EN
4	DE	BI	RE	PH	EN	GEc.
5	EN	MA	*CH.		MA	
					GA.	
				*PEB.	TX.	
				*PEB.	TX.	

Possible swap partners for "MA"

With a blue arrow you highlight a swap which can only be carried out in a very complex way. Drag the period over the blue arrow without dropping it and the respective chained swap will be displayed.

	Mo	Tu	We	Th	Fr	Sa	
1	EN	MA	GEc.	MU	MA	RI	
2	MU	EN	PEG	DE	RE	EN	
3	BI	AR	MA	EN	EN	MA	
4	PEG.	AR	DE	MA	DE	GEc.	
5		RE					
6	Possible chained swap for "MA"						
7							
8							PEG.

If you want to swap then drop the period on the respective position. You will be asked which decision you want to take.



Scheduling periods with collisions

You can also generate clashes. Drag a period, drop it on another and choose if the conflicting lesson should be unscheduled or if you want to create a clash.

1.6.2 Scheduling periods

From the lessons' window

To schedule a lesson from the lessons' window you need two windows: the lessons' window and the timetable.

The "UnSched Prds" column indicates the number of unscheduled periods and also a hand showing that these periods may be scheduled manually.

You can use drag&drop to take hold of the hand in the "UnSched Prds" column and to drag it to the timetable where you can drop it.

The screenshot shows two windows from a scheduling software. The left window, titled 'Class 2b (Andersen) / Class', displays a table of lessons. The right window, titled '2b - Class 2b (Andersen) Timetable', displays a weekly timetable grid for the school year 17.9.2018 - 30.6.2019. A red box labeled 'Drag&Drop' is positioned over the lesson entry for L-No. 34 in the left window. A red arrow points from this box to the cell for Monday, period 2 in the timetable grid on the right.

L-No.	Cl,Te	Unsched Prds	Per	YrsPrds	Teacher	Subject	Class(es)	Subject room	Home room	Double pers.
11	4, 1	2	2		Hugo	GFc	1a, 1b, 2a, 2b		R1a	
6	3, 7	1	1				, 2b, 3a		R2a	
75	2, 2	3	3				, 2a	SH1	R2b	
81	2, 2	2	2		Curie	IX	2b, 2a	TW	R2b	1-1
94	2, 1	1	1		New	GA	2a, 2b		R2b	
8	2	2	2		New	DM	2b	PL	R2b	
34	5	5	5		Callas	DE	2b		R2b	
37	2	2	2		Callas	MU	2b		R2b	
42	2	2	2		Callas	AR	2b		R2b	1-1
49	2	2	2		Nobel	RE	2b		R2b	
55	2	2	2		Rub	HI	2b		R2b	
66	2	2	2		Cer	BI	2b		R2b	
72	1	1	1		Curie	TX	2b	TW	R2b	
93	5	5	5		New	MA	2b		R2b	

	Mo	Tu	We	Th	Fr	Sa
1						
2						
3						
4						
5						
6						
7						
8						

Note: Background colour

Various shades of green indicate the suitability of the lesson and its scheduling. The more intensive the green, the more suitable the lesson in this place in the time grid from a scheduling point of view. Red fields mean that an element is blocked or that the evaluation of the schedule as a whole would be significantly impaired by the change. You cannot drag lessons on a white background.

From the timetable window

Alternatively, you can schedule lessons directly from the timetable window. The unscheduled periods are displayed next to the timetable by enlarging the window to the right or by clicking on the button < Resize the window >. These lessons can be scheduled with drag and drop.

School year: 17.9.2018 - 30.6.2019

UnSc 26/6	Mo	Tu	We	Th	Fr	Sa
1				*CH.		RE
2						
3						
4						
5						
6	AR				TX	
7						
8						

Drag&Drop

L-No.	Tea.	Subj.	Rm.	Cla.	Special text
66	Cer,	BI,	(R2b)	2b	

Note: Order of the lessons

You can place the lessons below and to the right of the timetable as you wish.

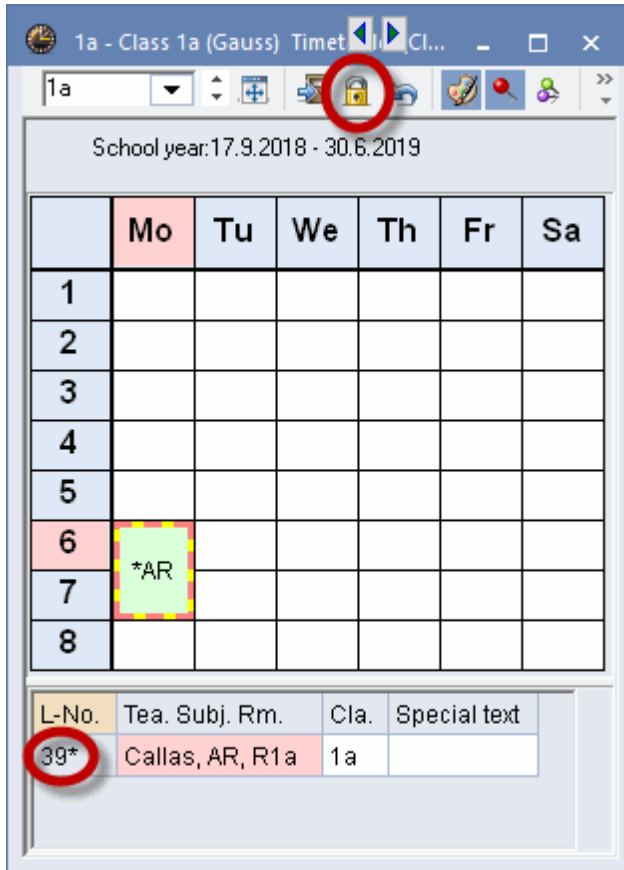
Day	Lesson
	DE
GEc.	
MA	
MU	
DS.	

- 4 EN
- MU
- RE
- DE
- BI

Each individual step can be undone by using the <Undo changes> button in the toolbar of the timetable.

1.6.3 Locking periods

If you wish to lock scheduled periods manually, click on the <Lock period> button in the timetable. Locked periods will not be moved during optimisation and will always retain their place in the timetable.



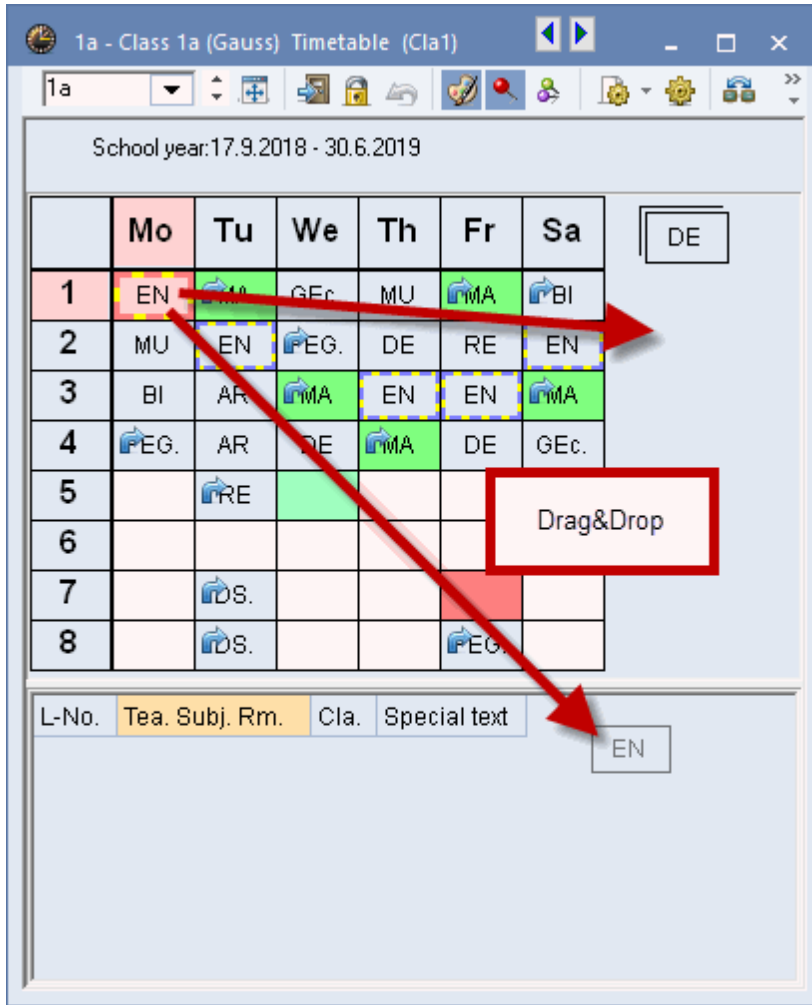
The lock is indicated by an * (asterisk) directly in the timetable and next to the lesson number in the period details window.

Note: Locking at other levels

You can use the 'Lock (X)' column to lock lessons and master data elements. Please refer to [Entries for all master data elements and lessons](#).

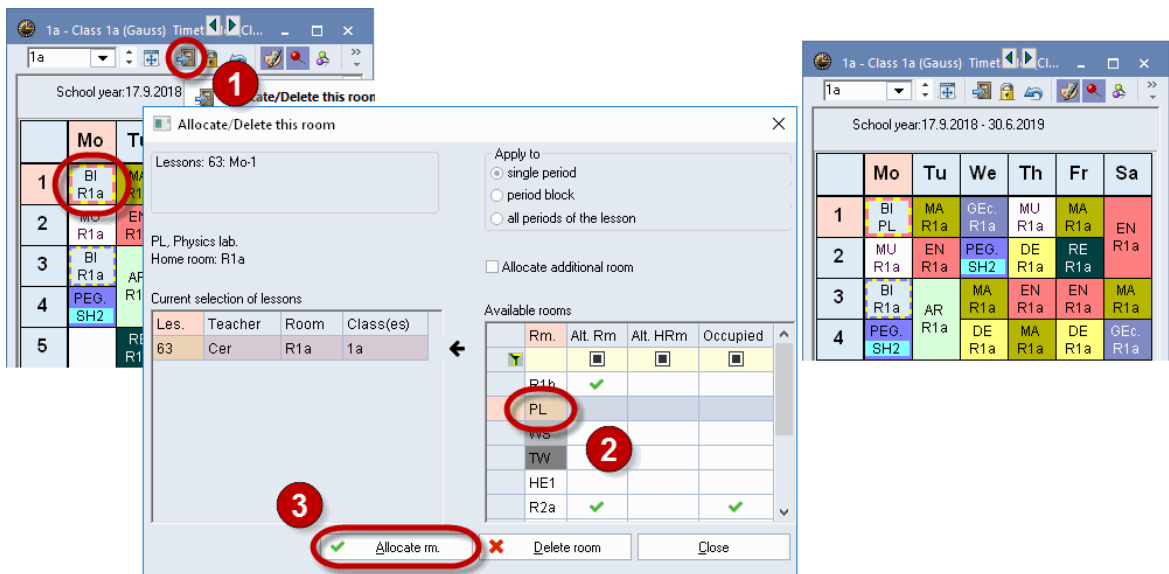
1.6.4 Unschedule periods

You can unschedule periods by dragging them into the timetable details section of the window and dropping them there.



1.6.5 Allocating rooms

You can also manage room allocation directly in the timetable window. Use the <Allocate/delete this room> (1) button to allocate rooms to scheduled periods or to delete already scheduled rooms (2,3).



Allocating rooms for block periods / all lesson periods

If you wish perform room allocation to a block of periods or to all periods of a lesson you can make the appropriate selection in the selection box in the top left.

Apply to

single period

period block

all periods of the lesson

Occupied rooms

Check the option "Also show occupied rooms" in the "Allocate/delete this room" dialogue if, in addition to the available rooms, you wish to list all those rooms that are not available at the time in question. They are indicated by the "Occupied" flag. Assigning an occupied room to a lesson, you can override the obstructing room, generate a clash or swap the rooms.

Allocate/Delete this room

Lessons: 63; Periods: 2 Tu-1, Fr-1

Home room: R1a

PL, Physics lab.

Current selection of lessons

Teacher	Room	Class(es)
Cer	R1a	1a

Apply to

single period

all periods of the lesson

Also show occupied rooms

Allocate additional room

Available rooms

Rm.	Alt. Rm	Alt. HRm
R3a	✓	
PL		
WS		
TW		

Allocate rm. Delete room Close

1.6.6 Swap suggestions

You can use the <Suggested swaps> button on the 'Start' tab to automatically display how the active period could be swapped within the class and across classes. To this end Untis evaluates the timetable based on your weighting settings and indicates if the quality of the timetable would be better or worse.

Suggested swaps

	Conseqnc.	Leap cl.	Gain
1	Subject twice a day	2b	12
2	Teacher not available		1
3	Double period error		-71
4	Double period error		-73
5	Period time requests		-224
6	Period time requests		-236
7	Subject twice a day		-313
8	Subject twice a day		-320
9	Subject twice a day		-530
10	Subject twice a day		-539
11	Subject twice a day		-556
12	Period time requests	1b	-142
13	Subject twice a day		-610
14	Subject twice a day		-937
15	Class NTP's		-1158

1a - Class 1a (Gauss) Timetable (Cla1)

School year: 17.9.2018 - 30.6.2019

UnSc	Mo	Tu	We	Th	Fr	Sa
2/28						
1	EN	MA	GEC	MU	MA	BI
2	MU	EN	PEG	DE	RE	EN
3	BI	AR	MA	EN	EN	MA
4	PEG	AR	DE	MA	DE	GEC
5		RE				
6						
7		DS				
8		DS			PEG	

L-No.	Tea.	Subj.	Rm.	Cla.	Special text
33	Arist	EN	R1a	1a	
+3					

With class leaps

It is often necessary to perform swaps across several classes. In order to enable a swap to be made in one class it is first necessary to perform a swap in another class - the so-called leap class. If you check the option 'With class leaps', these types of possibilities to swap will be offered.

The screenshot displays two windows from a scheduling software. The left window, titled 'Suggested swaps', lists various swap options. The top entry is 'Subject twice a day' with a gain of 244, highlighted by a red circle. Below it, other swaps are listed with their respective gains. The right window shows a timetable for '1b - Class 1b (Newton)'. The timetable grid has columns for days of the week (Mo, Tu, We, Th, Fr, Sa) and rows for periods (1-8). A red arrow points from the top swap in the 'Suggested swaps' window to the 'TX' cell in the timetable, indicating the swap's effect on the schedule.

The above example shows that the swap in class 1b would result in a 24-point improvement, therefore a swap in the leap class 1a is possible which brings about a highly ranked improvement, since a lesson scheduled on a locked period can be swapped. The timetable in the above examples will clearly be improved.

Note:

The suggested swaps window lists the swaps in the order of their evaluation with the best swaps right at the top. The 'Gain' column in the upper window pane will only list the evaluation of the first swap for a swap with class leaps (base class). The sort order in the upper window pane uses the total between the evaluations of the first swap and the best possible second swap. The total evaluation for both swaps is displayed in the lower window pane.

Warning: Swap period

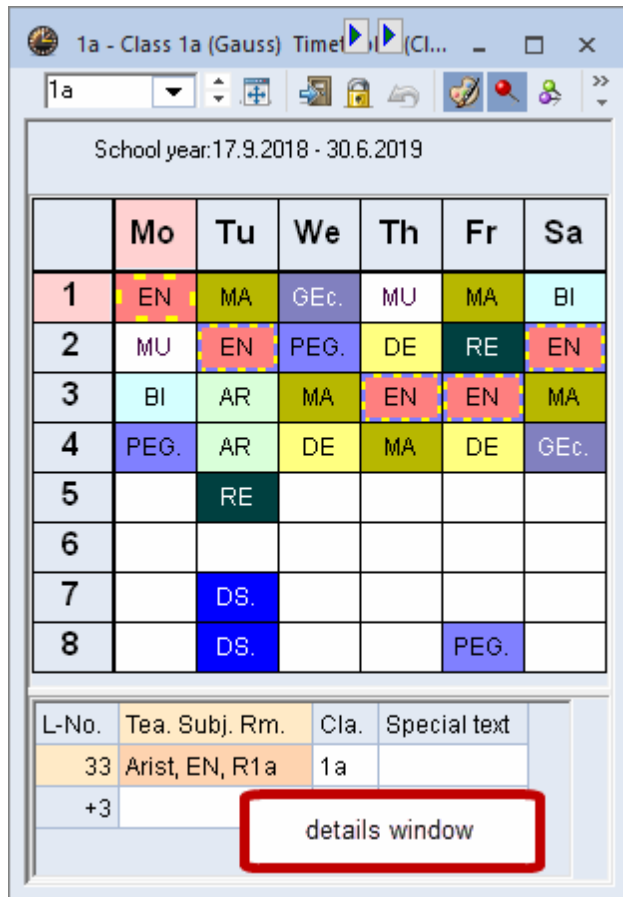
If you want to swap the period which is the basis for the swap suggestions, first click on the period in the timetable you want to get swap suggestions to. Then click on the 'Refresh' button for refreshing the suggested swaps.

1.7 Timetables

Untis aims to calculate a good timetable. This should then be easily readable and adapted to the requirements of those it is intended to serve (teachers, students, school office etc.). The following chapters first deal with the [timetable window](#) in general. We will then look at various formats and learn how to change the [layout](#). Finally we will also have a look at [printing timetables](#).

1.7.1 The timetable window

Generally speaking, the timetable window consists of two parts: the actual timetable and the timetable details window.



You can enter the name of the element that you wish to see directly in the input field at the top left. You can also use the spin controls located on the right of the input field to switch between elements.

Timetable window

The timetable window displays the actual timetable, and you can decide for yourself what information is displayed (please refer to chapter ' [Timetable layout](#) ').

Timetable details window

Depending on the circumstances all information relating to a lesson period cannot / should not be displayed in the timetable. However, you will find all information in the details window. This is especially helpful when couplings are involved.

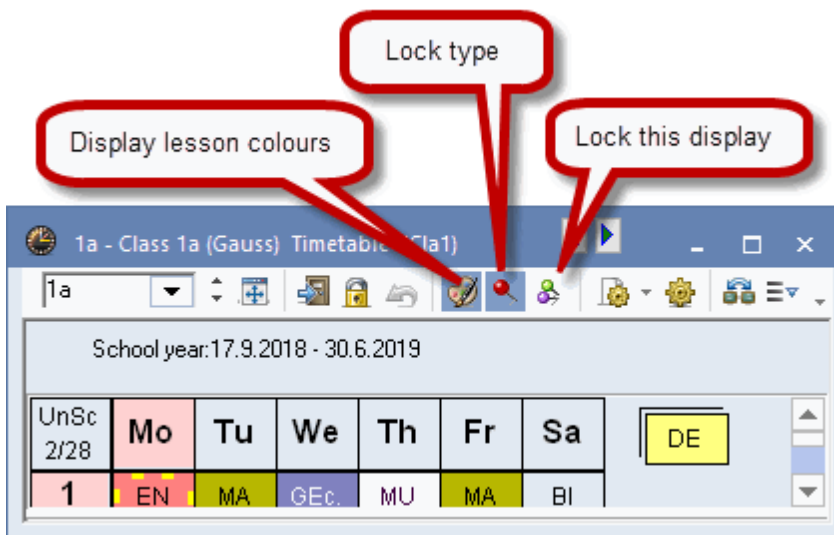
1.7.1.1 Timetable interaction

The timetable windows synchronise automatically just like many other windows in Untis. This means that the timetables cannot only be set manually but are adjusted automatically - if desired - to each element selected in another window. You will thus always have up-to-date information on the screen without having to search for it.

The image shows three screenshots of the Timetable software interface, each displaying a weekly grid for a different class or room. The first screenshot is for '1a - Class 1a (Gauss) Timetable', the second for 'Arist - Aristotle Timetable', and the third for 'R1a - Class Room 1a Timetable'. Each grid shows days of the week (Mo to Sa) and lesson periods (1 to 8). The cells are color-coded to represent different lessons. Below each grid is a table with columns: L-No., Tea, Subj, Rm., Cla., Special text. Red circles highlight the dropdown menus for '1a', 'Arist', and 'R1a' respectively.

1.7.1.2 Locking - colours

You can deactivate automatic synchronisation:



Lock type

Clicking on this button means that the type of timetable (teachers, classes, rooms) will stay the same.

Lock this display

Clicking on this button means that the view with the current element (e.g. class 3a) will stay the same.

Colours

This function allows you to activate or deactivate the display of colours defined in the master data or for lessons.

1.7.2 Timetable formats

You can access the different timetables for classes, teachers and rooms via the taba 'Timetables'. These predefined timetable formats can be customised to suit your needs (please refer to the chapter [Timetable layout](#)). Below we use the class timetable as an example that applies to each timetable format

- [Class timetable portrait/landscape](#)
- [Class schedule big](#)
- [Classes overview portrait](#)
- [Classes overview landscape](#)

1.7.2.1 Timetable portrai/landscape

By default these timetables only show one master data element (e.g. the subject in the class timetable). Further information (such as room and couplings) are displayed in a details window.

	Mo	Tu	We	Th	Fr	Sa
1	EN	MA	GEc.	MU	MA	BI
2	MU	EN	PEG.	DE	RE	EN
3	BI	AR	MA	EN	EN	MA
4	PEG.		DE	MA	DE	GEc.
5		RE				
6						
7		DS.				
8					PEG.	

L-No.	Tea.	Subj.	Rm.	Cla.	Special text
31	Arist,	MA,	R1a	1a	
+3					

	1	2	3	4	5	6	7	8
Mo	EN	MU	BI	PEG.				
Tu	MA	EN	AR		RE		DS.	
We	GEc.	PEG.	MA	DE				
Th	MU	DE	EN	MA				
Fr	MA	RE	EN	DE				PEG.
Sa	BI	EN	MA	GEc.				

L-No.	Tea.	Subj.	Rm.	Cla.	Special text
31	Arist,	MA,	R1a	1a	
+3					

1.7.2.2 Class schedule big

The 'Class schedule big' incorporates the settings for the [standard format](#) (subject, teacher, room and all coupling lines).

1a - Class 1a (Gauss) Timetable (Cla1A)

School year: 17.9.2018 - 30.6.2019

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1 8:00 8:45	EN Arist <u>R1a</u>	MA Arist <u>R1a</u>	GEc Hug <u>R1a</u>	MU Calla <u>R1a</u>	MA Arist <u>R1a</u>	BI Cer <u>R1a</u>
2 8:55 9:40	MU Calla <u>R1a</u>	EN Arist <u>R1a</u>	PEG Aris <u>SH</u> PEB Rub <u>SH</u>	DE Rub <u>R1a</u>	RE Nobe <u>R1a</u>	EN Arist <u>R1a</u>
3 9:50 10:35	BI Cer <u>R1a</u>	AR Calla <u>R1a</u>	MA Arist <u>R1a</u>	EN Arist <u>R1a</u>	EN Arist <u>R1a</u>	MA Arist <u>R1a</u>
4 10:45 11:30	PEG Aris <u>SH</u> PEB Rub <u>SH</u>		DE Rub <u>R1a</u>	MA Arist <u>R1a</u>	DE Rub <u>R1a</u>	GEc Hug <u>R1a</u>
5 11:40 12:25		RE Nobe <u>R1a</u>				
6 12:35 13:20						
7 13:30 14:15		DS Ander <u>WS</u>				
8 14:25 15:10		TX Curie <u>TW</u>			PEG Aris <u>SH</u> PEB Rub <u>SH</u>	

L-No.	Tea. Subj. Rm.	Cla.	Special text
31	Arist, MA, R1a	1a	
+3			

1.7.2.3 Timetable | Overview classes

The class timetable overview shows all classes one below the other with the individual lesson periods next to each other.

1a - Class 1a (Gauss) Timetable (Cla20)

1a

School year: 17.9.2018 - 30.6.2019

	Monday								Tuesday								Wednesday					
	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	
1a	EN	MU	BI	PEG					MA	EN	AR	RE			DS.		GEC		PEG	MA	DE	
1b	BI	MA	RE	DE				DE	RE	MA				DS.					MU	MA		
2a	MU	RE	MA	DE	EN			AR		BI	MA								HI	RE		
2b	RE	MA	AR	MU				MA	PEB	PH	HI							MU	TX	DE	*C	
3a	HI	EN	PEG	GA.	MA		BI	EN	RE	BI	DE					PEG		DE	HI	MA		
3b	HI	GEC	PH	MA				RE	BI	GA.								TX	RE	DE		
4	PEG	CK	HI	DE		AR	PH	DS.	MU	BI	MA.					GA		RE	MA.	GEC		

L-No.	Tea. Subj. Rm.	Cl.	Special text
63	Cer, BI, R1a	1a	

1.7.2.4 Timetable | Overview classes-1

This is also an overview of all elements. In this cases, the elements are displayed next to each other and the weekly periods one below the other.

School year: 17.9.2018 - 30.6.2019

	1a	1b	2a	2b	3a	3b	4
Mo-1	EN	BI	MU	RE	HI	HI	PEG.
Mo-2	MU	MA	RE	MA	EN	GEc	CK
Mo-3	BI	RE	MA	AR	PEG.		HI
Mo-4	PEG.		DE		GA.	PH	DE
Mo-5		DE	EN	MU	MA	MA	
Mo-6							AR
Mo-7					BI		
Mo-8							PH
Tu-1	MA	DE	AR	MA	EN	RE	DS.
Tu-2	EN				RE	BI	
Tu-3	AR	RE	PEB.		BI	GA.	MU
Tu-4		MA	BI	PH	DE		BI
Tu-5	RE		MA	HI			MA.
Tu-6							
Tu-7							
Tu-8	DS.	DS.					
We-1	GEc.				PEG.		GA
We-2	PEG.		HI	MU	DE	TX	RE
We-3	MA	MU		TX	HI	RE	MA.
We-4	DE	MA	RE	DE	MA	DE	GEc

L-No.	Tea. Subj. Rm.	Cla.	Special text
90	New, MA, R2a	2a	
+3			

1.7.3 Timetable layout

You can also modify the pre-defined formats to match your requirements. You can [change the size](#), display all timetables in [standard format](#) or decide what should be displayed in the [period window](#).

1.7.3.1 Adjusting timetable size

If you move the cursor to the line separating Monday and Tuesday you will see a small, double-headed arrow and you can adjust the height of the row.

You can adjust the width of the column in the same way – just move the cursor to the line separating the two columns.

School year: 17.9.2018 - 30.6.2019

	Mo	Tu	We	Th	Fr	Sa
1	EN	MA	GEc.	MU	MA	BI
2	MU	EN	PEG.	DE	RE	EN
3	BI	AR	MA	EN	EN	MA
4	PEG.		DE	MA	DE	GEc.
5		RE				
6						
7						
8		DS.			PEG.	

L-No.	Tea. Subj. Rm.	Cla.	Special text
31	Arist, MA, R1a	1a	
+3			

1.7.3.2 Standard format

Clicking the right mouse-button in the timetable displays a context menu where you can select the option 'Timetable period: standard format'. This setting displays all the main elements of the period. If couplings are involved, all coupling lines will be displayed. The font size will be adjusted to match the space available.

1a - Class 1a (Gauss) Timetable (Cla1A)

School year: 17.9.2018 - 30.6.2019

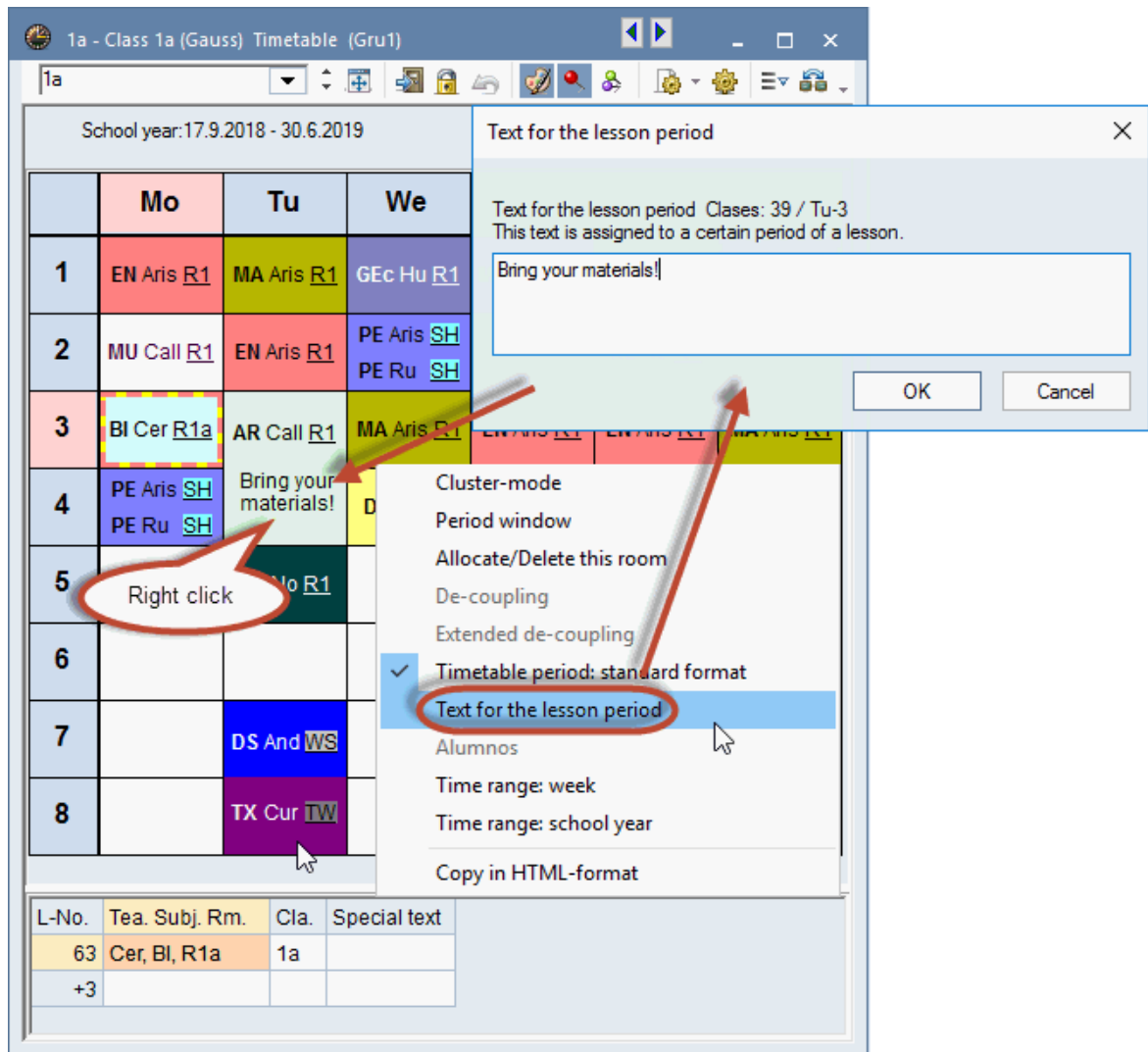
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1 8:00 8:45	EN Arist R1a	MA Arist R1a	GEc Hug R1a	MU Calla R1a	MA Arist R1a	BI Cer R1a
2 8:55 9:40	MU Calla R1a	EN Arist R1a	PEG Aris SH PEB Rub SH	DE Rub R1a	RE Nobe R1a	EN Arist R1a
3 9:50 10:35	BI Cer R1a	AR Calla R1a	MA Arist R1a	EN Arist R1a	EN Arist R1a	MA Arist R1a
4 10:45 11:30	PEG Aris SH PEB Rub SH		DE Rub R1a	MA Arist R1a	DE Rub R1a	GEc Hug R1a
5 11:40 12:25		RE Nobe R1a				
6 12:35 13:20						
7 13:30 14:15		DS Ander WS				
8 14:25 15:10		TX Curie TW				

- Cluster-mode
- Period window
- Allocate/Delete this room
- De-coupling
- Extended de-coupling
- Timetable period: standard format
- Text for the lesson period
- Students M.
- Time range: week
- Time range: school year
- Copy in HTML-format

L-No.	Tea. Subj. Rm.	Cla.	Special text
53	Rub, DE, R1a	1a	
+3			

1.7.3.3 Text for the lesson period

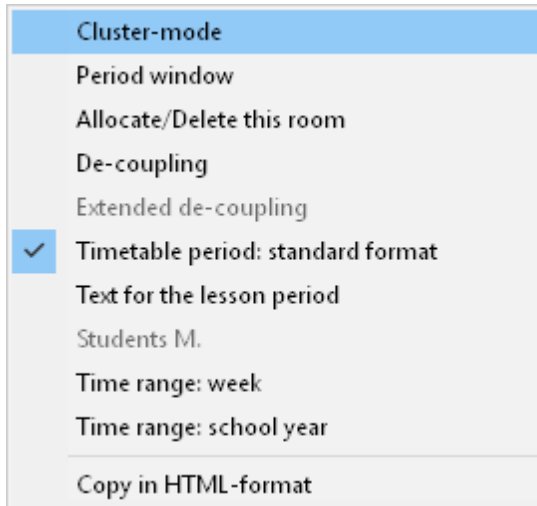
In the timetable standard format (e.g. Class big) it is possible to add a text to a certain period in the timetable. Right click in the desired period in the timetable and select "Text for the lesson period".



You do not need to change any setting in the timetable standard format (e.g. Class timetable large).

1.7.3.4 Period window

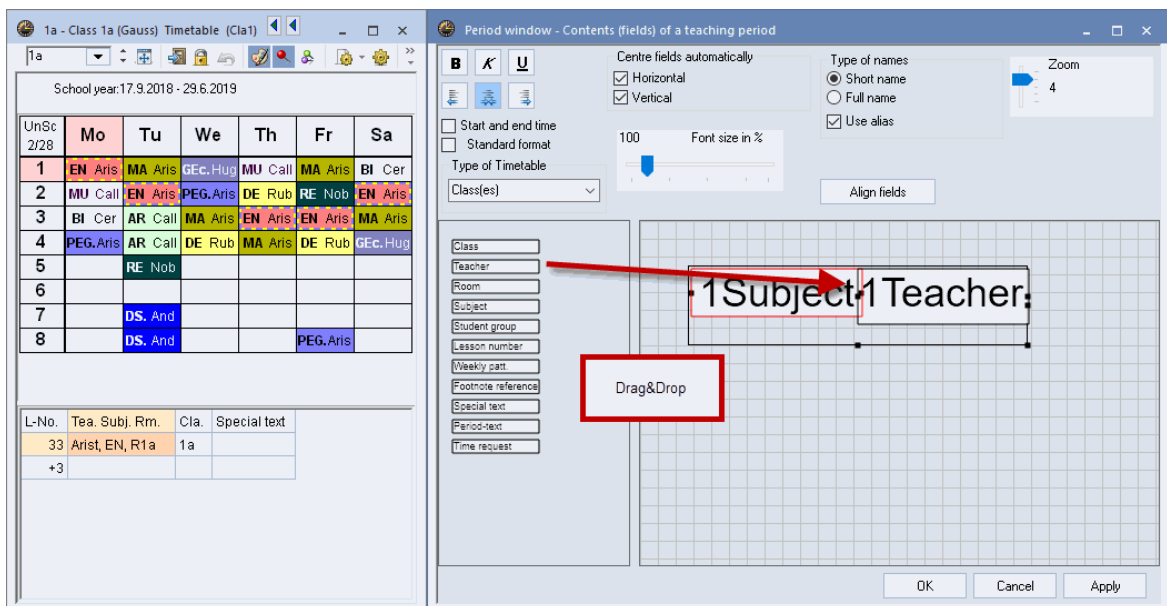
You can also define which contents should be displayed in the timetable fields. Click on <Settings> in the timetable window or open the context menu (right mouse click) and activate the option 'Period window'.



Using this editor you can [display new elements](#) , [change the order of elements](#) and edit the layout with [additional settings](#).

1.7.3.4.1 Adding/deleting fields

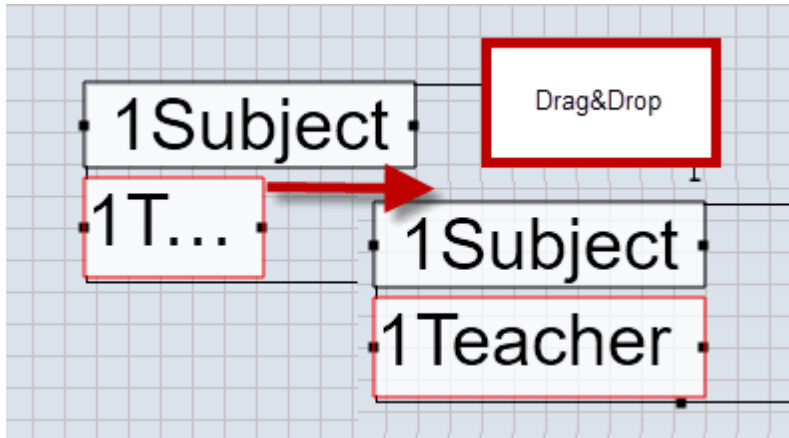
Click on the <New field> button in the period window, if you wish to add a new field to the timetable display.



You can, for example, choose to display the teacher in the class timetable:

1.7.3.4.2 Changing field size and position

The active element is marked turquoise in the period window editor. You can use drag&drop to change the positioning and size of the fields.



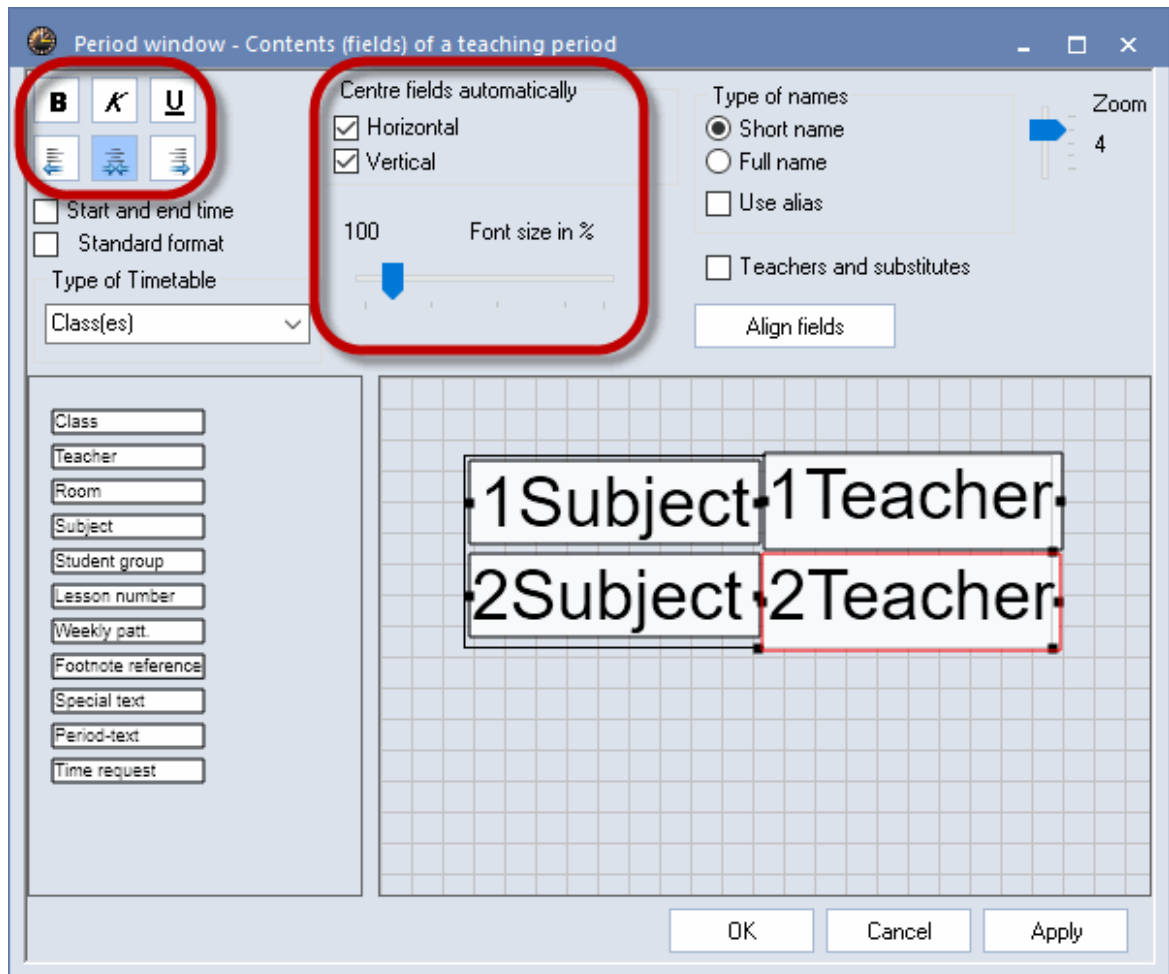
You can/should activate an element such as teacher more than once for couplings (maximum number of used couplings):

	Mo	Tu	We
1	EN Arist	MA Arist	GEc. Hugo
2	MU Callas	EN Arist	PEG. Arist PEB Rub
3	BI Cer	AR Callas	MA Arist
4	PEG. Arist PEB Rub	AR Callas	DE Rub
5		RE Nobel	
6			
7		DS. Ander TX Curie	

Note: Size of timetable period
When the background is activated, you can use drag and drop to change the size of the field of the period window.

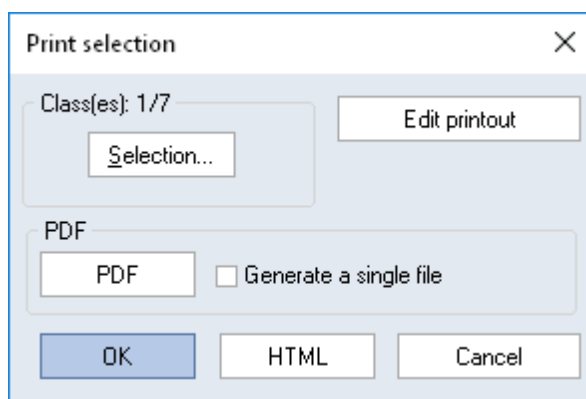
1.7.3.4.3 Further settings

You will find a number of additional options with which you can modify the layout of the timetable.



1.7.4 Printing timetables

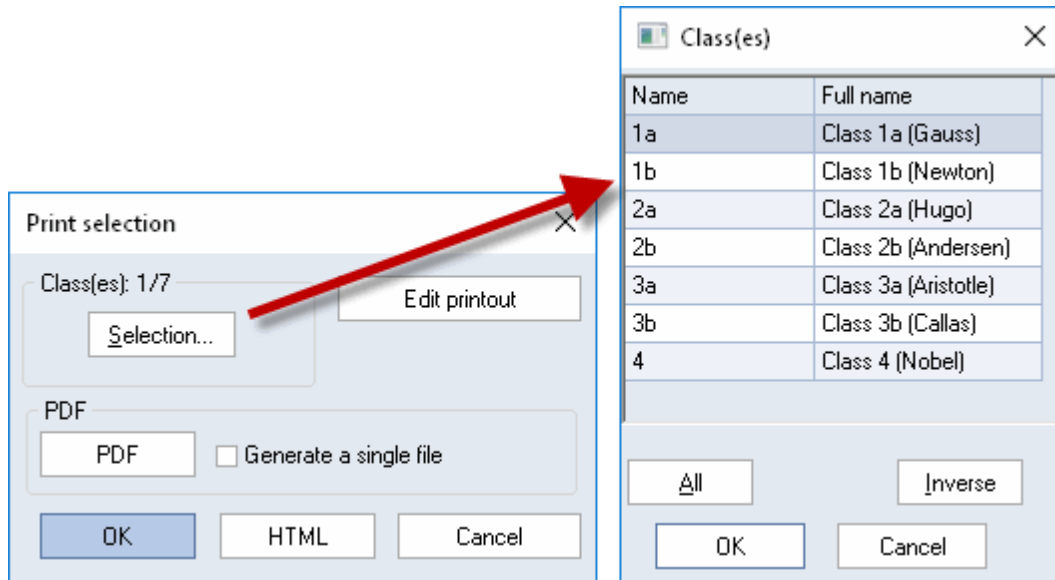
Printing timetables is effected via the <Print> or <Print Preview> buttons. Clicking on either option first displays the print selection window, where you can make additional settings.



The print selection window allows you to make a [selection](#) of the timetables you wish to print. Additionally you can specify the details of the [individual timetables](#) or [overview timetables](#) in the print preview window.

1.7.4.1 Timetable selection

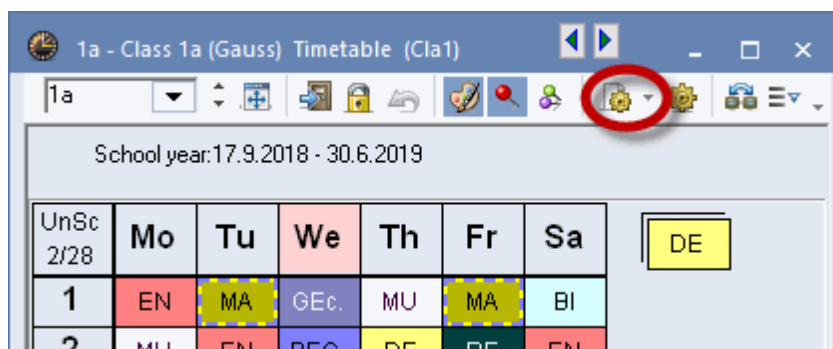
By default, the timetable displayed on screen will be printed. You can use the <Selection> option to specify that several timetables of the same format should be printed simultaneously:



You can select the timetables for the desired elements by holding the left mouse button and moving the cursor or with <Ctrl> + click (see figure).

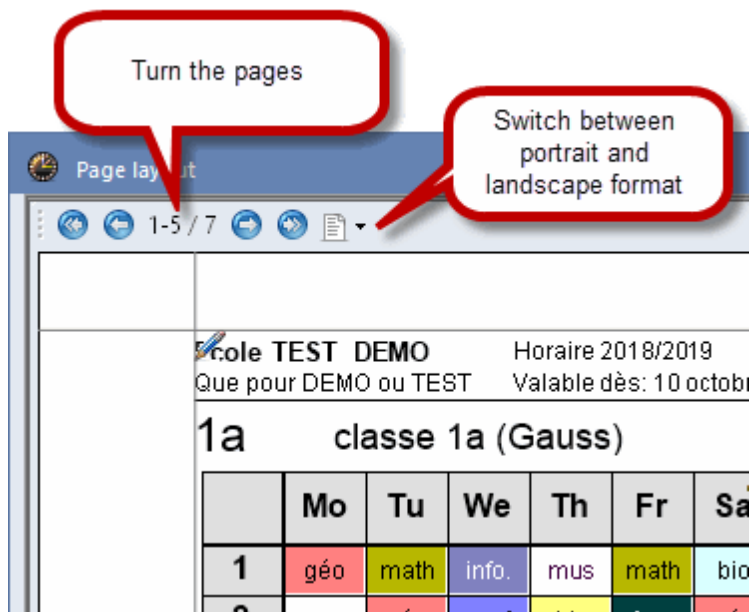
1.7.4.2 Page layout

Via the <Edit printout> button in the print selection or the <Page layout> button in the menu you can specify additional details for the respective printout. Possible settings depend on the format of the timetable.



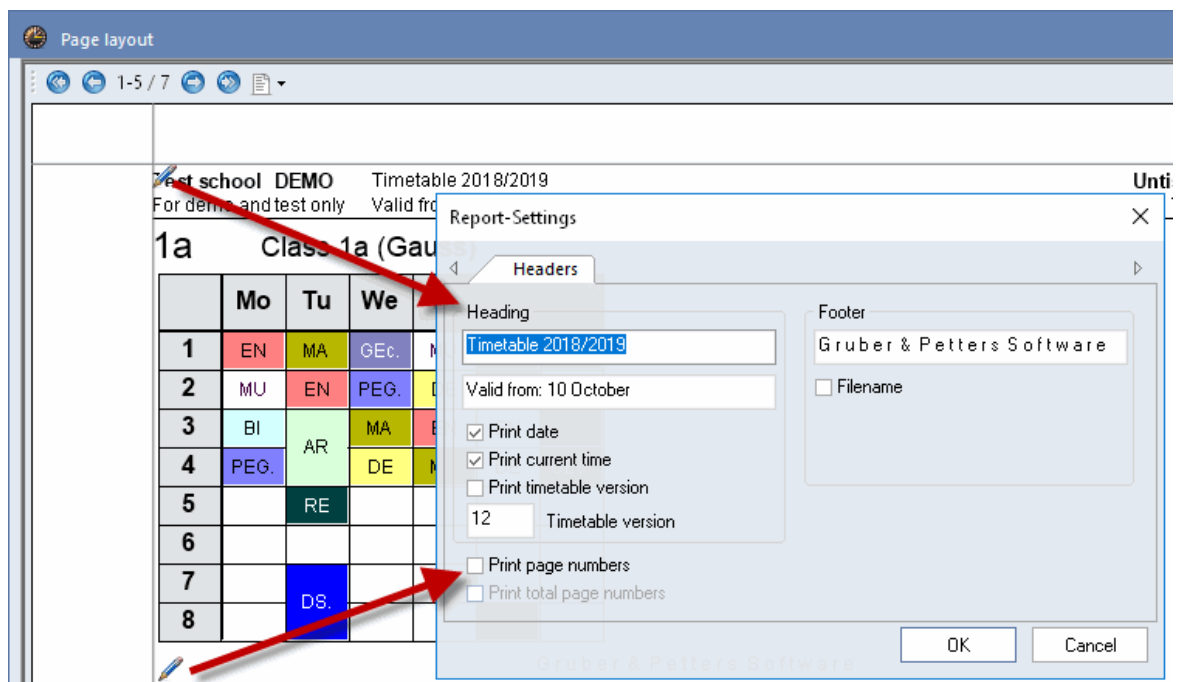
1.7.4.2.1 Menu bar page layout

In the menu bar of the timetable page layout you can change between the pages or change to portrait or landscape.



1.7.4.2.2 Header and footer

Click on one of the two small pencils in the timetable page layout next to the header or footer and you can edit their content.



1.7.4.2.3 Period window

Via the gear-wheel next to the timetable you get to the detail settings of the [period window](#) (please refer to the respective chapter in the timetable layout).

Page layout

1-5 / 7

Test school DEMO Timetable 2018/2019
For demo and test only Valid from: 10 October

1a Class 1a (Gauss)

	Mo	Tu	We	Th	Fr	Sa
1	EN Arist	MA Arist	GEc. Hugo	MU Callas	MA Arist	BI Cer
2	MU Callas	EN Arist	PEG. Arist	DE Rub	RE Nobel	EN Arist
3	BI Cer	AR Callas	MA Arist	EN Arist	EN Arist	MA Arist
4	PEG. Arist		DE Rub	MA Arist	DE Rub	GEc. Hugo
5		RE Nobel				
6						
7						
8		DS. Ander TX Curie			PEG. Arist	

Gruber & Petters Software

Period window - Contents (fields) of a teaching period

Centre fields automatically
 Horizontal
 Vertical

Type of names
 Short name
 Full name
 Use alias

Zoom 4

Start and end time
 Standard format

Font size in % 100

Type of Timetable
 Class(es)

Align fields

Class
 Teacher
 Room
 Subject
 Student group
 Lesson number
 Weekly patt.
 Footnote reference
 Special text

1 Subject 1 Teacher
 2 Subject 2 Teacher

1.7.4.2.4 Insert image

By clicking on the <Background picture> button you can insert a bmp picture. It is displayed instead of the button and can be moved or its size can be adjusted by activating the <Move picture> button.

untis 2018
21.7.2017 14:20

Fr	Sa
MA Arist	BI Cer
RE Nobel	EN Arist
EN Arist	MA Arist
DE Rub	GEc. Hugo
PEG. Arist	

oftware

Class(es): 7/7

Selection

- Adjust the size of the timetable to the page
- Lessons, ...
- Coupling legend (footnote)
- Abbreviations
- Teachers of the class
- Background picture
- <Not Defined>

Background picture

C:\Program Files (x86)\Untis\2018\GpIndex.gif

Move picture

Move picture

1.7.4.2.5 Individual timetables page layout

The following descriptions apply to individual timetables (and not to overview timetables).

Page layout

1-5 / 7

First school DEMO Timetable 2018/2019
For demo and test only Valid from: 10 October

Untis 2018
21.7.2017 15:02

1a Class 1a (Gauss)

	Mo	Tu	We	Th	Fr	Sa
1	EN Arist	MA Arist	GEc. Hugo	MU Callas	MA Arist	BI Cer
2	MU Callas	EN Arist	PEG. Arist	DE Rub	RE Nobel	EN Arist
3	BI Cer	AR Callas	MA Arist	EN Arist	EN Arist	MA Arist
4	PEG. Arist		DE Rub	MA Arist	DE Rub	GEc. Hugo
5		RE Nobel				
6						
7		DS. Ander				
8					PEG. Arist	

Gruber & Peiters Software

Class(es): 7/7

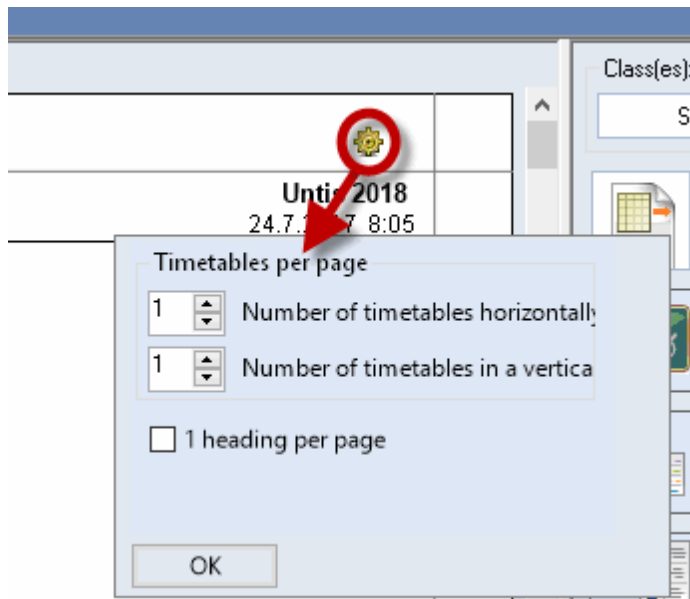
Selection

- Adjust the size of the timetable to the page
- Lessons, ...
- Coupling legend (footnote)
- Abbreviations
- Teachers of the class
- Background picture
- <Not Defined>

Move picture

Settings of timetable page

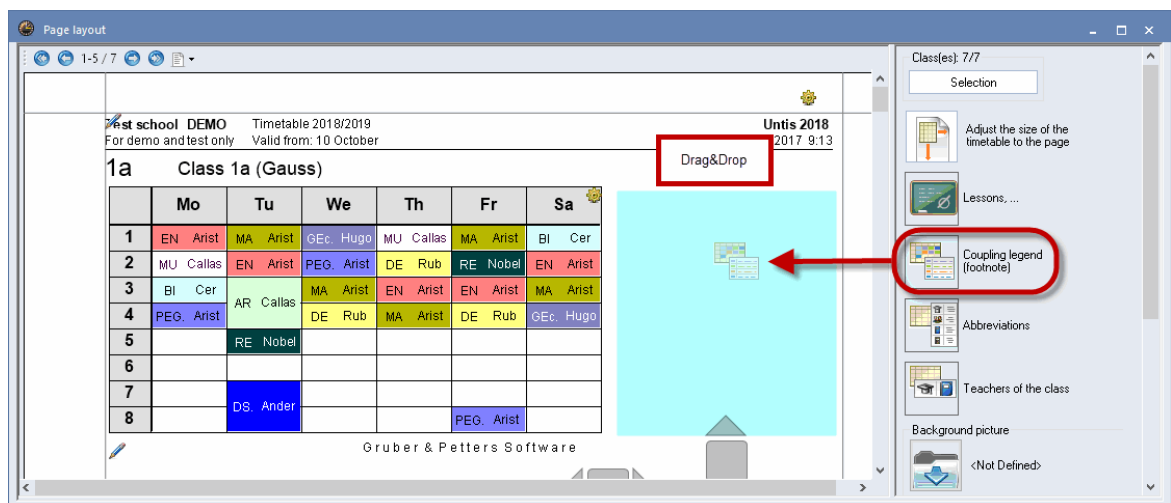
You can choose, for instance, how many timetables should be printed on a page plus how many or which weeks.



Coupling legend

A legend is always printed if all the lesson information cannot be displayed in the period window. Lesson information (for classes) includes all rooms, subjects and teachers.

Drag and drop allows you to select the position of the legend on the page or whether the legend should be printed on a separate page.



Via the settings button of the legend you can also define how many columns the legend should have and whether the legend should be printed in a frame. The legend can be deleted via the big red X.

Page layout

1-5 / 7

Test school DEMO Timetable 2018/2019
For demo and test only Valid from: 10 October

1a Class 1a (Gauss)

	Mo	Tu	We	Th	Fr	Sa
1	EN Arist	MA Arist	GEc. Hugo	MU Callas	MA Arist	BI Cer
2	MU Callas	EN Arist	PEG. Arist	DE Rub	RE Nobel	EN Arist
3	BI Cer	AR Callas	MA Arist	EN Arist	EN Arist	MA Arist
4	PEG. Arist		DE Rub	MA Arist	DE Rub	GEc. Hugo
5		RE Nobel				
6						
7						
8		DS. Ander			PEG. Arist	

Remove the legend

No. Tea., Sub., Rm. Cla

- 1) Arist, EN, R1a 1a
- 2) Callas, MU, R1a 1a
- 3) Cer, BI, R1a 1a
- 4) Arist, PEG, SH2 1a, 1b
- 5) Arist, MA, R1a 1a
- 6) Callas, AR, R1a 1a

Print frames

1 Number of columns

OK

Gruber & Petters Software

Lessons

With timetables for classes and teachers, you can choose to print the lessons view as well.

Page layout

1-5 / 7

Test school DEMO Timetable 2018/2019
For demo and test only Valid from: 10 October

Untis 2018
24.7.2017 10:02

1a Class 1a (Gauss)

	Mo	Tu	We	Th	Fr	Sa
1	EN	MA	GEc.	MU	MA	BI
2	MU	EN	PEG.	DE	RE	EN
3	BI	AR	MA	EN	EN	MA
4	PEG.		DE	MA	DE	GEc.
5		RE				
6						
7		DS.				
8					PEG.	

L-No.	Cl,Te.	UnSched	Prds	Per	Teacher	Subject	Class(es)
11	4, 1			2	Hugo	GEc	1a,1b,2a,2b
7	2, 3			2	Ander	DS	1a
					Gauss	DS	1b
					Curie	TX	1a,1b
73	2, 2			3	Arist	PEG	1a,1b
					Rub	PEB	1a,1b
31				5	Arist	MA	1a
33				5	Arist	EN	1a
35				2	Callas	MU	1a
39				2	Callas	AR	1a

Gruber & Petters Software

Abbreviations

A legend can be printed with the abbreviations of the subjects and/or teachers. In the following example, the name and full names of the subjects are listed next to the timetable.

Page layout

1-5 / 7

Test school DEMO Timetable 2018/2019
For demo and test only Valid from: 10 October

Untis 2018
24.7.2017 10:13

1a Class 1a (Gauss)

	Mo	Tu	We	Th	Fr	Sa
1	EN	MA	GEc.	MU	MA	BI
2	MU	EN	PEG.	DE	RE	EN
3	BI	AR	MA	EN	EN	MA
4	PEG.		DE	MA	DE	GEc.
5		RE				
6						
7		DS.				
8					PEG.	

Subjects
Name Full name

- AR Art
- BI Biology
- DE German
- DS Design
- EN English
- GEc Geography and Economics
- MA Mathematics
- MU Music
- PEB Boys PE
- PEG Girls PE
- RE Religious Education
- TX Textiles

Gruber & Petters Software

Teacher of the class

The teachers of the class can also be printed.

Page layout

1-5 / 7

Test school DEMO Timetable 2018/2019
For demo and test only Valid from: 10 October

Untis 2018
24.7.2017 10:25

1a Class 1a (Gauss)

	Mo	Tu	We	Th	Fr	Sa
1	EN	MA	GEc.	MU	MA	BI
2	MU	EN	PEG.	DE	RE	EN
3	BI	AR	MA	EN	EN	MA
4	PEG.		DE	MA	DE	GEc.
5		RE				
6						
7		DS.				
8					PEG.	

Teacher Su..

- Hugo GEc
- Ander DS
- Arist PEG
- MA
- EN
- Callas MU
- AR
- Nobel RE
- Rub PEB
- DE
- Cer BI
- Curie TX

Gruber & Petters Software

The following function is available in single timetables as well as in the overview timetables:

Click the 'Adjust the size of the timetable to the page' button the timetable is fit into the page.

Page layout

1-5 / 7

1st school DEMO Timetable 2018/2019
For demo and test only Valid from: 10 October

Units 2018
24.7.2017 10:26

1a Class 1a (Gauss)

	Mo	Tu	We	Th	Fr	Sa
1	EN	MA	GE.	MU	MA	BI
2	MU	EN	PEO.	DE	RE	EN
3	BI		MA	EN	EN	MA

Class(es): 7/7

Selection

Adjust the size of the timetable to the page

Lessons...

Coupling legend (footnote)

Abbreviations

Teachers of the class

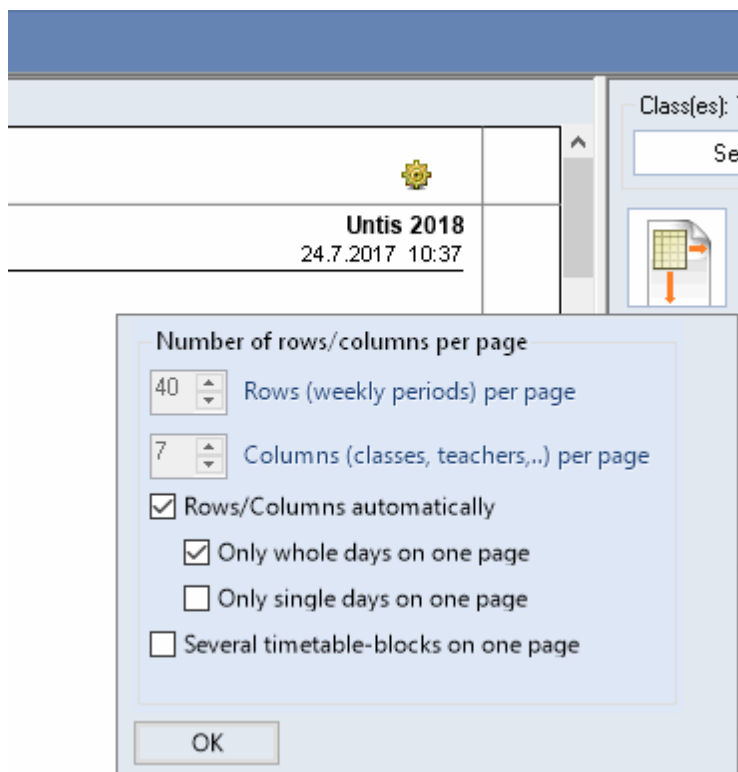
Background picture

<Not Defined>

Move picture

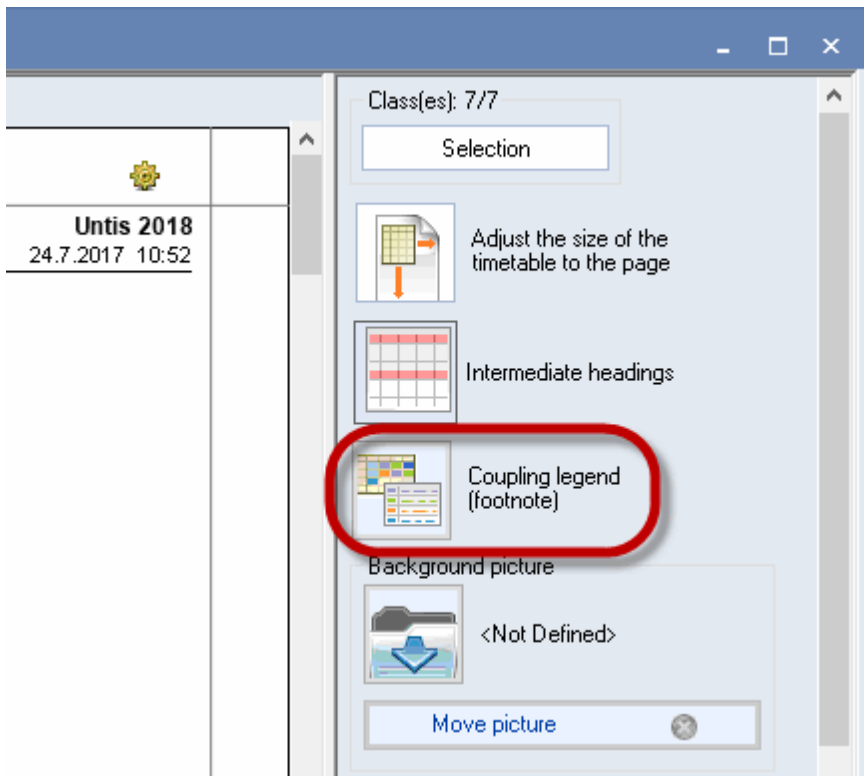
1.7.4.2.6 Overview timetable details

The following details can be set when printing overview timetables:



Number of rows/columns per page

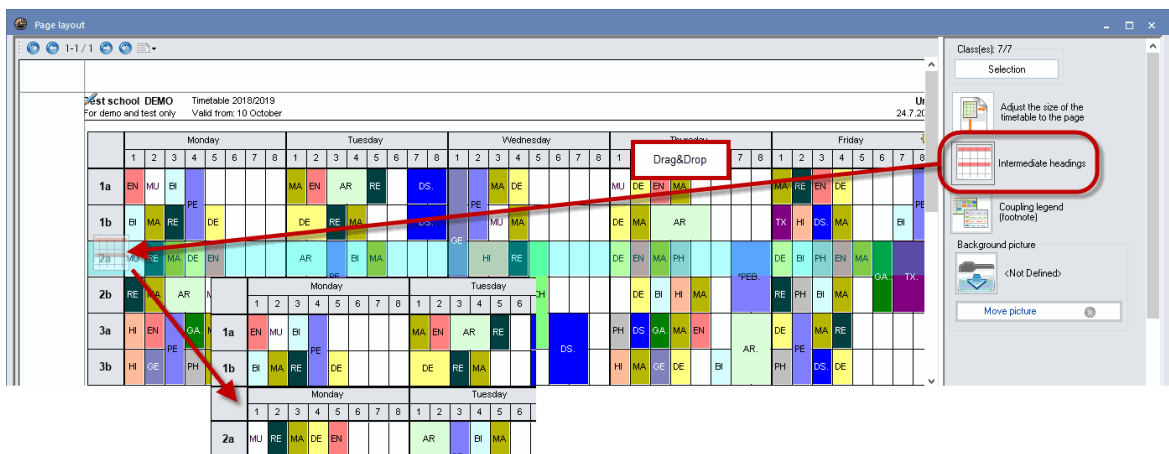
The check box "Rows/Columns automatically" allows you to specify that Untis should print exactly as many rows and columns as will fit on the page.



If the box is not checked, you can specify how many rows and columns should be printed on a sheet using the relevant input fields.

Coupling legend

As with the individual timetables, you can also specify that a legend should be printed with the information that does not fit in the period window. The legend is activated in the overview timetables and is always printed on a separate page.



Intermediate heading

If you have big overviews it can help to display intermediate headings. Drag the button to the desired position (e.g. after the third class row) - after every x entries (here after every third entry) an intermediate heading will be displayed.

1.7.4.3 Timetables in HTML format

Untis provides the option of generating timetables in HTML format at the press of a button which are then directly available for a school's own intranet or for the Internet.

The image shows two HTML timetables for Class 1a (Gauss) generated by Untis. The first timetable is for the year 2018/2019, valid from 10 October. The second timetable is for the year 2018, valid from 24.7.2017 13:37. Both timetables show a grid of days (Mo to Sa) and periods (1 to 8) with teacher names and subjects. A 'Print selection' dialog box is open, showing 'Classes: 7/7' and options for 'PDF' and 'HTML' (selected). Red arrows point from the dialog box to the HTML output area of the second timetable.

1.8 Lists

Untis Express provides a number of predefined lists that can assist you in your scheduling work or that can serve as overview lists for e.g. teachers' meetings.

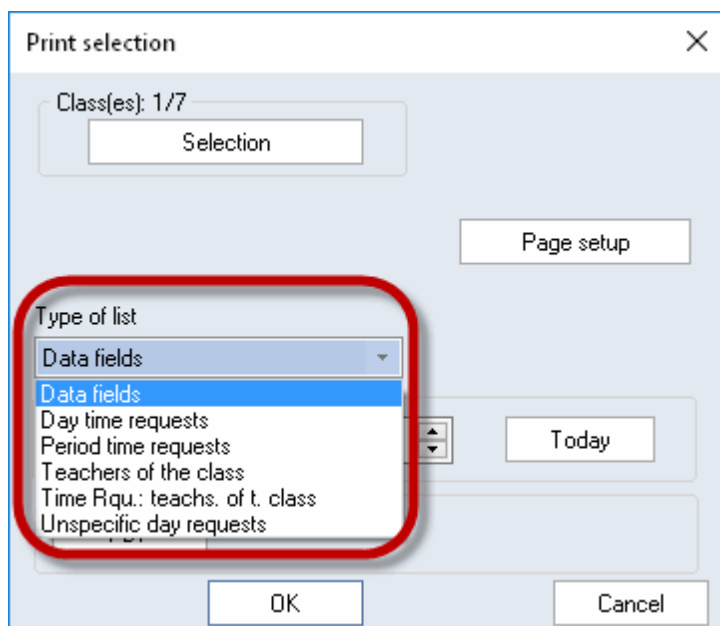
- [Class lists](#)
- [Teacher lists](#)
- [Room lists](#)
- [Subject lists](#)

These lists can be accessed via [print selection](#) in the [master data views](#).

1.8.1 Class lists

Lists for classes are accessed via master data of the classes and print selection.

- [Teachers of the class](#)
- [Period time requests](#)
- [Day time requests](#)
- [Unspecified day requests](#)
- [Time request: teachers of the class](#)



1.8.1.1 Teachers of the class

This list shows all teachers who teach in the individual classes and is often used for teachers' meetings.

Test school DEMO Timetable 2018/2019
 For demo and test only Valid from: 10 October

List for meetings of class-teachers

Class	Teacher	Subjects
1a	Hugo	GEc
	Ander	DS
	Arist	PEG MA EN
	Callas	MU AR
	Nobel	RE
	Rub	PEB DE
	Cer	BI
	Curie	TX
1b	Gauss	DS
	Hugo	GEc
	Ander	DS HI
	Arist	PEG MA

1.8.1.2 Period time requests

This list shows the [time requests](#) entered in the [master data](#) for the classes.

Test school DEMO
For demo and test only

Timetable 2018/2019
Valid from: 10 October

Untis 2018
24.7.2017 15:17

Period time requests

Name	Mo								Tu								We								Th								Fr								Sa				
	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5
1a	+	+	+	+					+	+	+	+					+	+	+	+					+	+	+	+					+	+	+	+					+	+	+	+	
1b	3	3	3	3					3	3	3	3					3	3	3	3					3	3	3	3					3	3	3	3					3	3	3	3	
2a	+	+	+	+					+	+	+	+					+	+	+	+					+	+	+	+					+	+	+	+					+	+	+	+	
2b	3	3	3	3					3	3	3	3					3	3	3	3					3	3	3	3					3	3	3	3					3	3	3	3	
3a	+	+	+	+					+	+	+	+					+	+	+	+					+	+	+	+					+	+	+	+					+	+	+	+	
3b	3	3	3	3					3	3	3	3					3	3	3	3					3	3	3	3					3	3	3	3					3	3	3	3	
4	+	+	+	+					+	+	+	+					+	+	+	+					+	+	+	+					+	+	+	+					+	+	+	+	
	3	3	3	3					3	3	3	3					3	3	3	3					3	3	3	3					3	3	3	3					3	3	3	3	

Gruber & Petters Software

1.8.1.3 Day time requests

Specified time requests that apply to whole days or half days are listed here.

Test school DEMO
For demo and test only

Timetable 2018/2019
Valid from: 10 October

Untis 2018
24.7.2017 15:46

Day time requests

Name	Monday		Tuesday		Wednes..		Thursday		Friday		Saturday	
	a.m.	p.m.	a.m.	p.m.	a.m.	p.m.	a.m.	p.m.	a.m.	p.m.	a.m.	p.m.
1a	+3	-3	+3		+3		+3		+3		+3	
1b	+3	-3	+3		+3		+3		+3		+3	
2a	+3	-3	+3		+3		+3		+3		+3	
2b	+3	-3	+3		+3		+3		+3		+3	
3a	+3	-3	+3		+3		+3		+3		+3	
3b	+3	-3	+3		+3		+3		+3		+3	
4	+3	-3	+3		+3		+3		+3		+3	

Gruber & Petters Software

1.8.1.4 Unspecified day requests

This list shows unspecified additional time requests that apply to whole days or half days.

Test school DEMO Timetable 2018/2019
 For demo and test only Valid from: 10 October

Untis 2018
 24.7.2017 16:16

Unspecific day requests

Name	a.m.			p.m.			halves			Days		
	-3	-2	-1	-3	-2	-1	-3	-2	-1	-3	-2	-1
1a				2	1							
1b				2	1							
2a				2	1							
2b				2	1							
3a									2			
3b									3			
4									2			

Gruber & Petters Software

1.8.1.5 Time request: Teachers of the class

All specified negative time requests for class teachers are listed.

Test school DEMO Timetable 2018/2019
 For demo and test only Valid from: 10 October

Untis 2018
 24.7.2017 16:36

Time requests teach/class

1a Class 1a (Gauss)

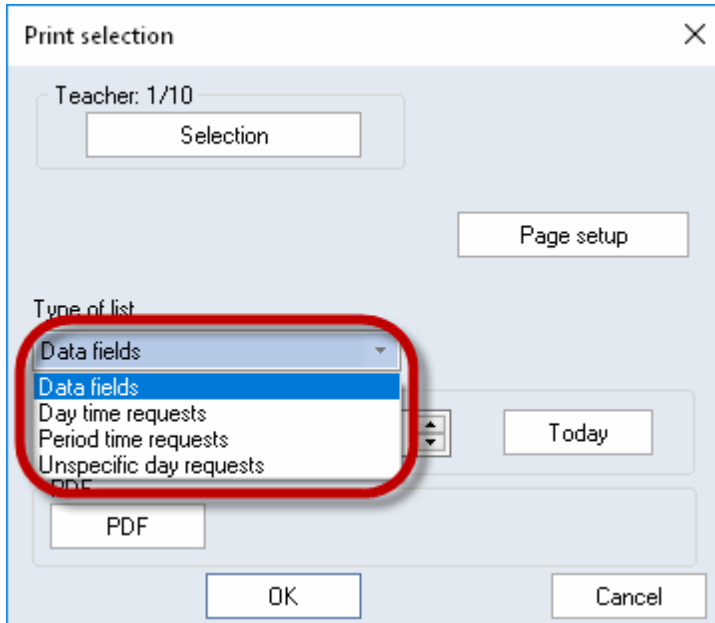
Name	Mo			Tu			We			Th			Fr			Sa		
	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8	
Hugo				xx	xxxxxx	xxx												
Ander	xxxxxx	xxx																
Arist		xx			xx			xx			xx			xx				x
Callas													xxxxxx	xxx				
Nobel											xxx					xxxxxx		
Rub																		
Cer								xxxxxx	xxx									
Curie																xxxxxx		

Gruber & Petters Software

1.8.2 Teacher lists

Lists for teachers are accessed via master data of the teachers and print selection.

- [Period time requests](#)
- [Day time requests](#)
- [Unspecified day requests](#)



1.8.2.1 Period time requests

This list shows the [time requests](#) entered in the [master data](#) for the teachers.

Test school DEMO
For demo and test only

Timetable 2018/2019
Valid from: 10 October

Untis 2018
25.7.2017 8:42

Period time requests

Name	Mo								Tu								We								Th								Fr								Sa							
	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5			
Gauss																																																
New																																																
Hugo																																																
Ander																																																
Arist																																																
Callas																																																
Nobel																																																
Rub																																																
Cer																																																
Curie																																																

Gruber & Petters Software

1.8.2.2 Day time requests

Specified time requests that apply to whole days or half days are listed here.

Test school DEMO
For demo and test only

Timetable 2018/2019
Valid from: 10 October

Untis 2018
25.7.2017 9:34

Day time requests

Name	Monday		Tuesday		Wednes..		Thursday		Friday		Saturday	
	a.m.	p.m.	a.m.	p.m.	a.m.	p.m.	a.m.	p.m.	a.m.	p.m.	a.m.	p.m.
Gauss												
New					-3	-3		+3				
Hugo			-3	-3				+3				
Ander	-2	-2										
Arist												
Callas									-3	-3		
Nobel					+2	+2		-3	+2	+2	-2	-2
Rub												
Cer					-3	-3						
Curie											-3	-3

Gruber & Petters Software

1.8.2.3 Unspecified additional day requests

This list shows [unspecified additional time requests](#) that apply to whole days or half days.

Test school DEMO
For demo and test only

Timetable 2018/2019
Valid from: 10 October

Untis 2018
25.7.2017 9:33

Unspecific day requests

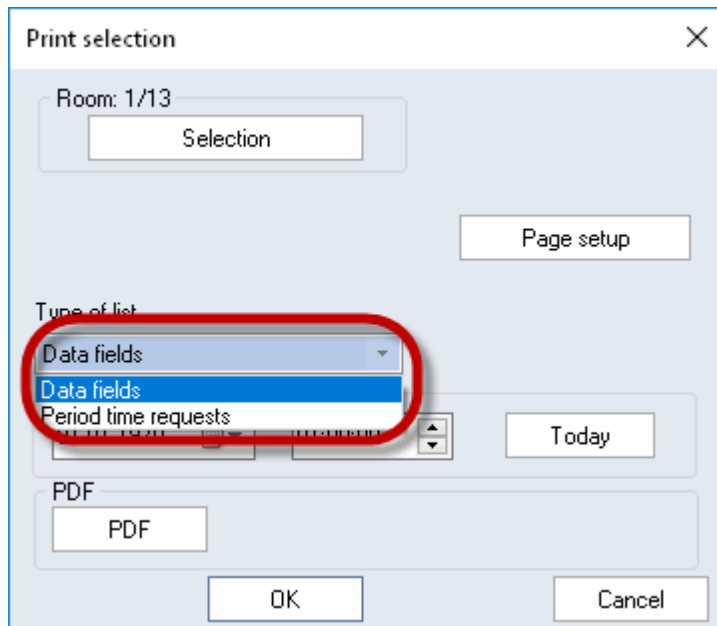
Name	a.m.			p.m.			halves			Days		
	-3	-2	-1	-3	-2	-1	-3	-2	-1	-3	-2	-1
Gauss				3								
New												
Hugo				1	3							
Ander												
Arist				3								
Callas												
Nobel												
Rub				2								
Cer				2	1							
Curie												

Gruber & Petters Software

1.8.3 Room lists

Lists for classes are accessed via master data of the rooms and print selection.

- [Period time requests](#)



1.8.3.1 Period time requests

This list shows the time requests entered in the master data for rooms.

Test school DEMO
For demo and test only

Timetable 2018/2019
Valid from: 10 October

Untis 2018
25.7.2017 9:47

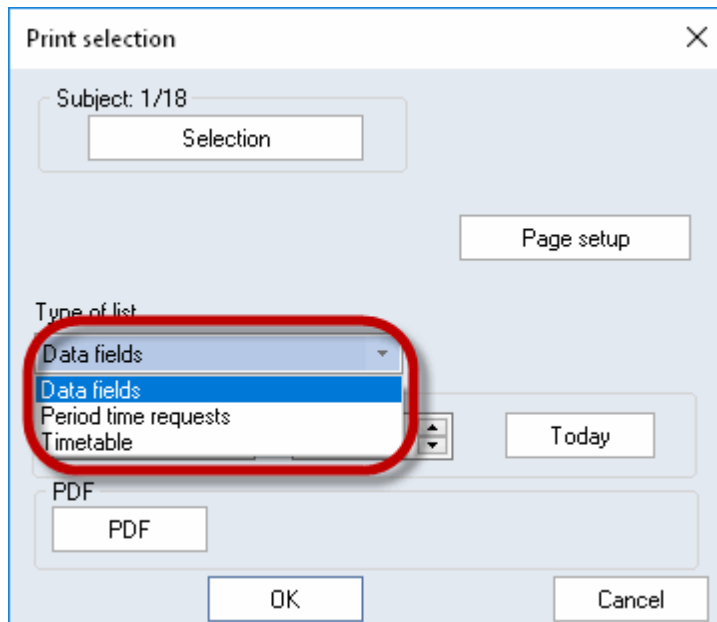
Period time requests

Name	Mo								Tu								We								Th								Fr								Sa						
	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5		
SH1																																															
SH2																																															
PL	-								-							-								-								-															
WS																																															
TW	-								-						-						-						-																				
HE1	-								-						-						-						-																				
R1a																																															
R1b																																															
R2a																																															
R2b																																															
R3a																																															
Ps1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ps2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

1.8.4 Subject lists

Lists for classes are accessed via "Master Data | Subjects" and print selection.

- [Timetable](#)
- [Period time requests](#)



1.8.4.1 Timetable

A timetable is generated for each subject.

Test school DEMO
For demo and test only

Timetable 2018/2019
Valid from: 10 October

Untis 2018
25.7.2017 10:41

Mathematics (MA)

	1	2	3	4	5	6	7	8
Mo		Arist New	New		Gauss New			
Tu	Arist New	New		Arist	New Ander Gauss			
We			Arist Ander Gauss	Arist Gauss	Gauss Ander			
Th		Arist New	New	Arist Gauss	New			
Fr	Arist		Gauss	Arist New	New			
Sa	New Ander Gauss	New Ander Gauss	Arist					

Gruber & Petters Software

1.8.4.2 Period time requests

This list shows the time requests entered in the master data for subjects.

Period time requests

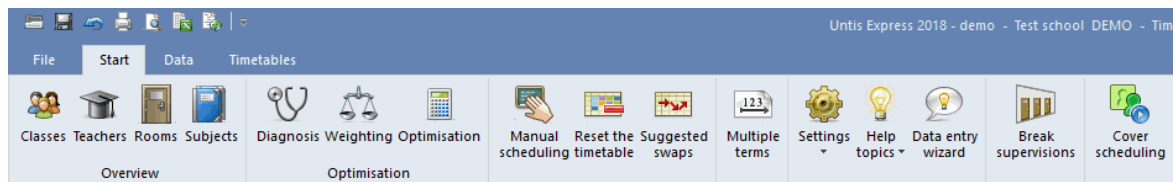
Name	Mo	1	2	3	4	5	6	7	8	Tu	1	2	3	4	5	6	7	8	We	1	2	3	4	5	6	7	8	Th	1	2	3	4	5	6	7	8	Fr	1	2	3	4	5	6	7	8	Sa	1	2	3	4	5
MU																																																			
TX																																																			
DS	-	-	-	-						-	-	-	-						-	-	-	-						-	-	-	-						-	-	-	-						-	-	-	-		
HE	2	2	2	2	2					2	2	2	2	2					2	2	2	2	2					2	2	2	2	2					2	2	2	2	2					2	2	2	2	2	
CK	2	2	2	2	2					2	2	2	2	2					2	2	2	2	2					2	2	2	2	2					2	2	2	2	2					2	2	2	2	2	
PEG	-	-	-	-						-	-	-	-						-	-	-	-						-	-	-	-						-	-	-	-						-	-	-	-		

Gruber & Petters Software

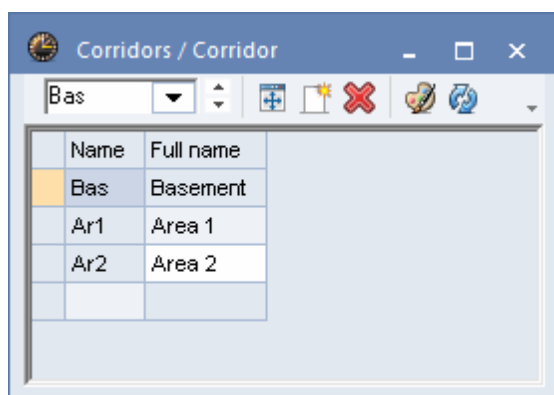
2 Break supervision

2.1 Data entry

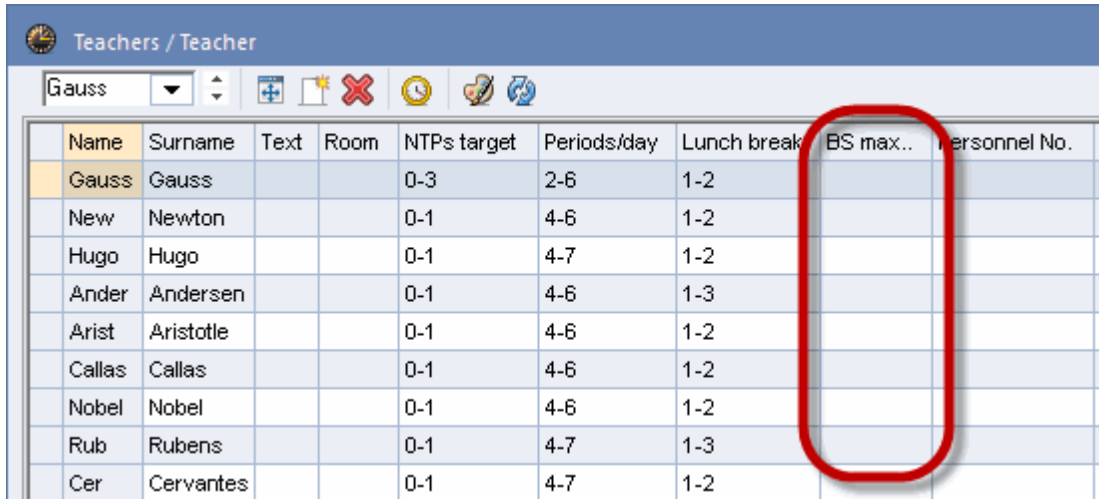
You can schedule break supervisions in Untis Express provided that you use the 'Cover scheduling' module. Go to the 'Start' tab and click on <Break supervisions>.



First define which areas need to be supervised in the 'Corridors' window.

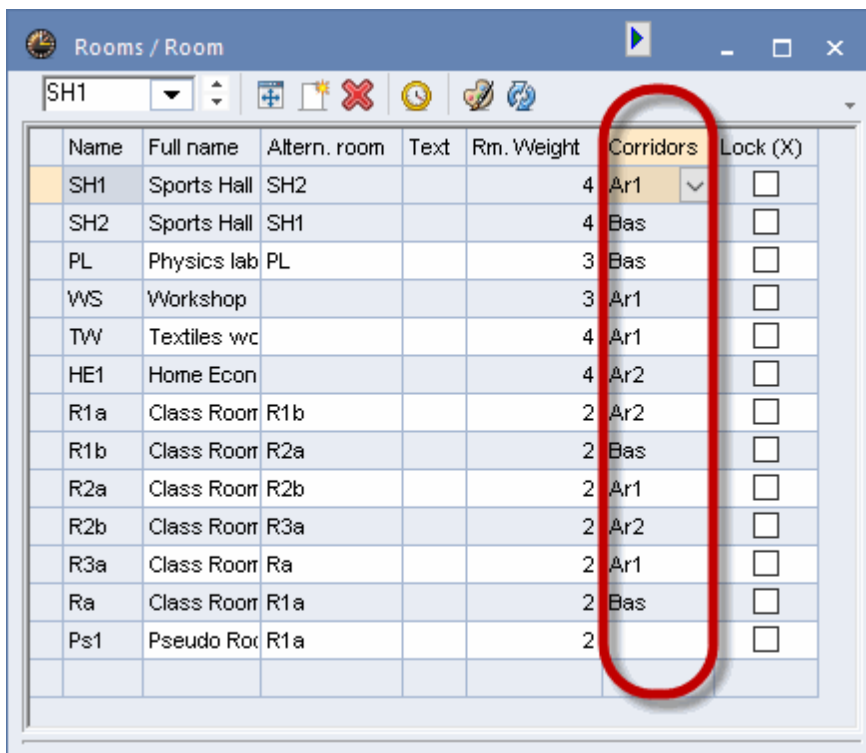


Then enter a number in the 'BS Max' field in the 'Teachers | Master data' window. Here you define the maximum number of minutes every teacher shall be on duty for break supervision per week.



Name	Surname	Text	Room	NTPs target	Periods/day	Lunch break	BS max..	Personnel No.
Gauss	Gauss			0-3	2-6	1-2		
New	Newton			0-1	4-6	1-2		
Hugo	Hugo			0-1	4-7	1-2		
Ander	Andersen			0-1	4-6	1-3		
Arist	Aristotle			0-1	4-6	1-2		
Callas	Callas			0-1	4-6	1-2		
Nobel	Nobel			0-1	4-6	1-2		
Rub	Rubens			0-1	4-7	1-3		
Cer	Cervantes			0-1	4-7	1-2		

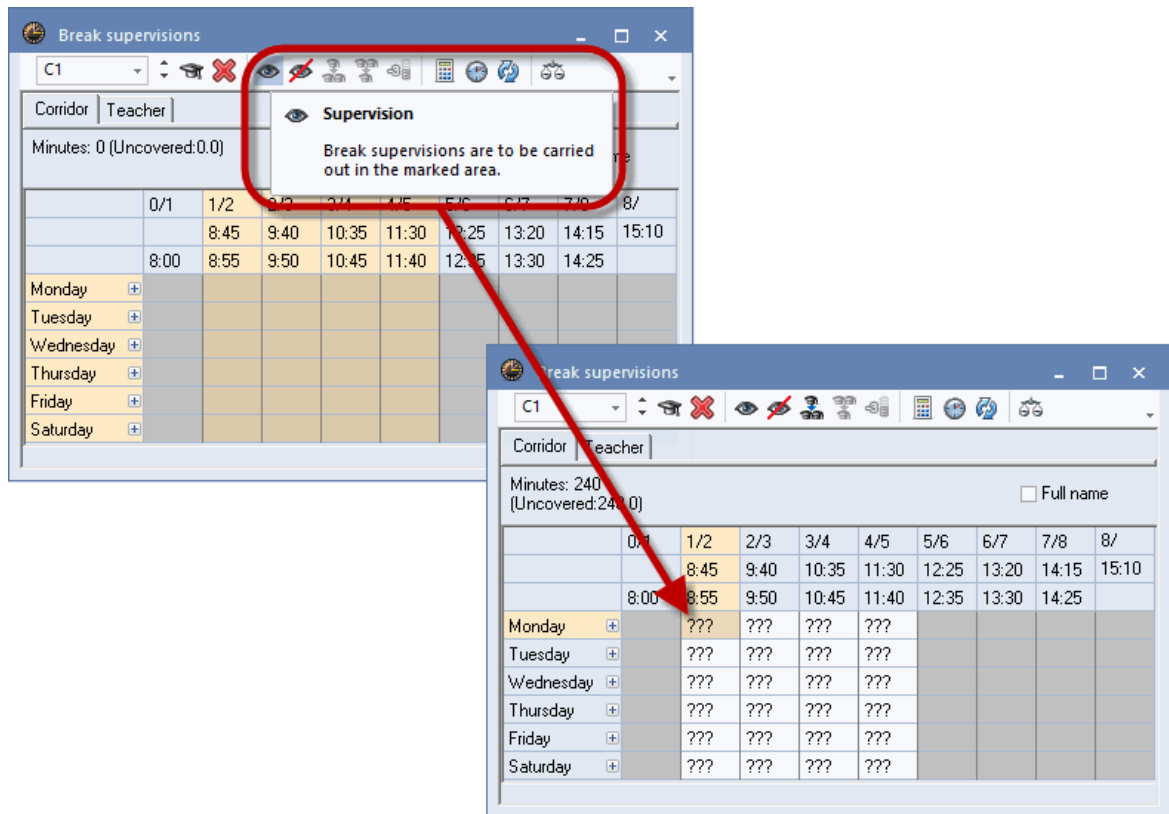
If required you can enter in the 'Rooms' window which rooms are next to which corridors. At the next optimization run, Untis tries to schedule the teachers for break supervision in those corridors next to classes in which they taught prior to the break or will teach after the break.



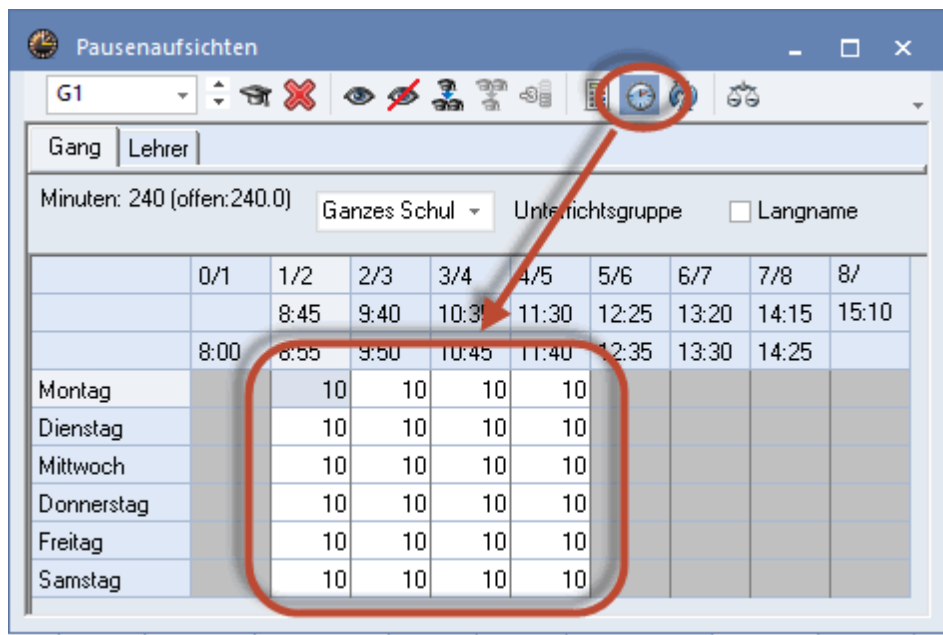
Name	Full name	Altern. room	Text	Rm. Weight	Corridors	Lock (X)
SH1	Sports Hall	SH2		4	Ar1	<input type="checkbox"/>
SH2	Sports Hall	SH1		4	Bas	<input type="checkbox"/>
PL	Physics lab	PL		3	Bas	<input type="checkbox"/>
WS	Workshop			3	Ar1	<input type="checkbox"/>
TW	Textiles wc			4	Ar1	<input type="checkbox"/>
HE1	Home Econ			4	Ar2	<input type="checkbox"/>
R1a	Class Room	R1b		2	Ar2	<input type="checkbox"/>
R1b	Class Room	R2a		2	Bas	<input type="checkbox"/>
R2a	Class Room	R2b		2	Ar1	<input type="checkbox"/>
R2b	Class Room	R3a		2	Ar2	<input type="checkbox"/>
R3a	Class Room	Ra		2	Ar1	<input type="checkbox"/>
Ra	Class Room	R1a		2	Bas	<input type="checkbox"/>
Ps1	Pseudo Roc	R1a		2		<input type="checkbox"/>

2.2 Break supervision window

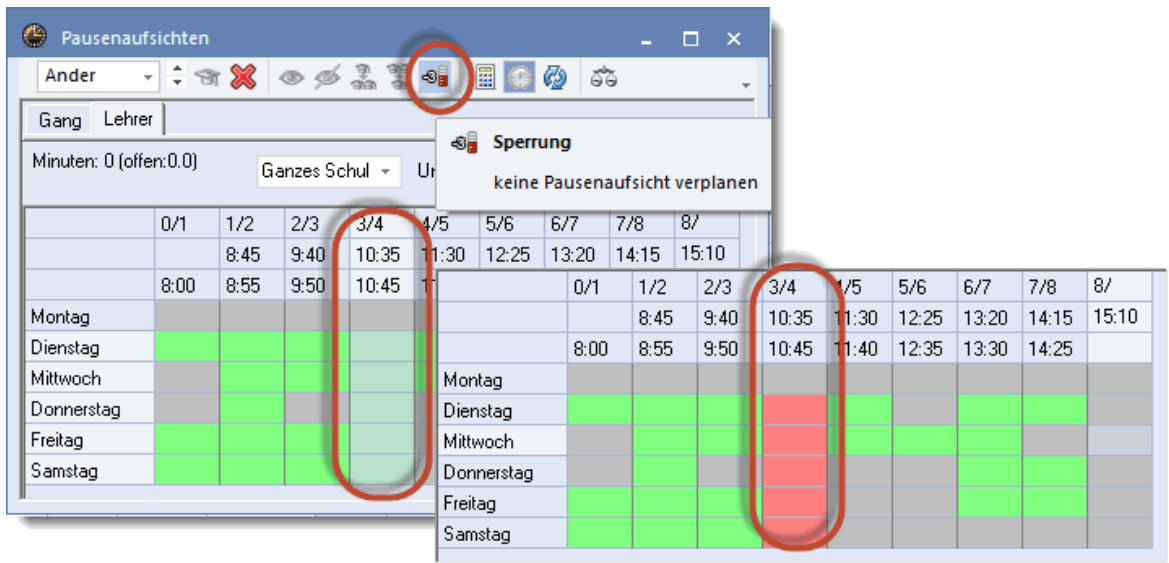
In the 'Break supervisions' window all breaks are displayed in a table which are available for scheduling acc. to the time grid. At the top left you select a corridor and then mark the breaks in the grid which need supervision. Click on the <Supervision> button and complete this step.



If you want to weight breaks differently than defined in the time grid, click on the <Minutes> button. Then you can enter in the grid how the different breaks should be weighted.

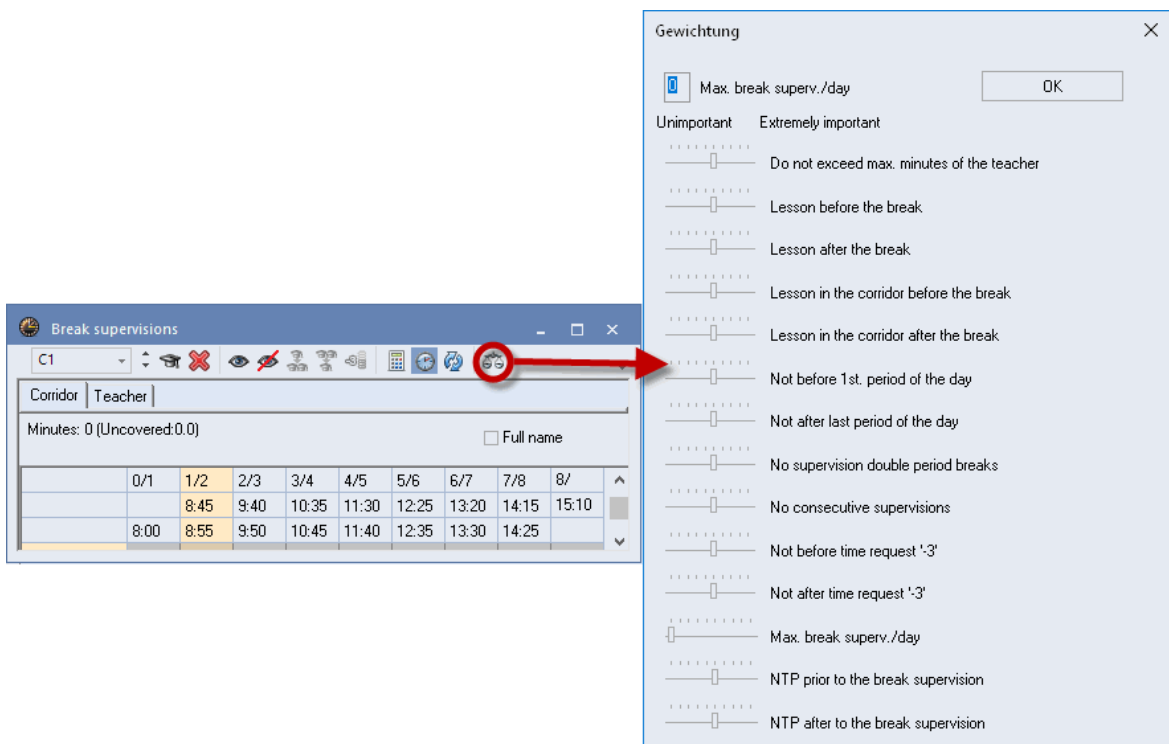


Not all teachers are always available for all breaks. Block colleagues who should not be scheduled at specific times. Go to the 'Teachers' tab and click on the <Block> button.



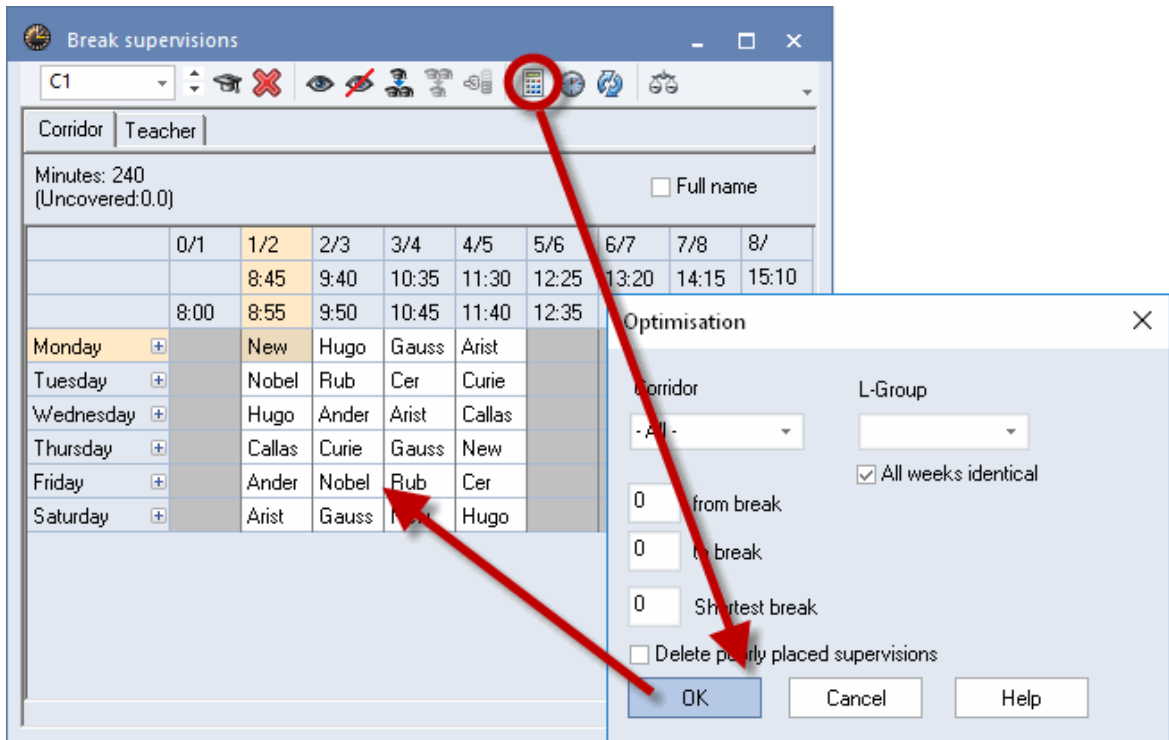
2.3 Weighting

Before you start the optimization run, open the 'Weighting' window by clicking on the respective button. Here you define which requirements are important for scheduling supervisions. At many schools it is, for instance, important that neither prior to nor after a supervision a lesson is scheduled.



2.4 Optimisation

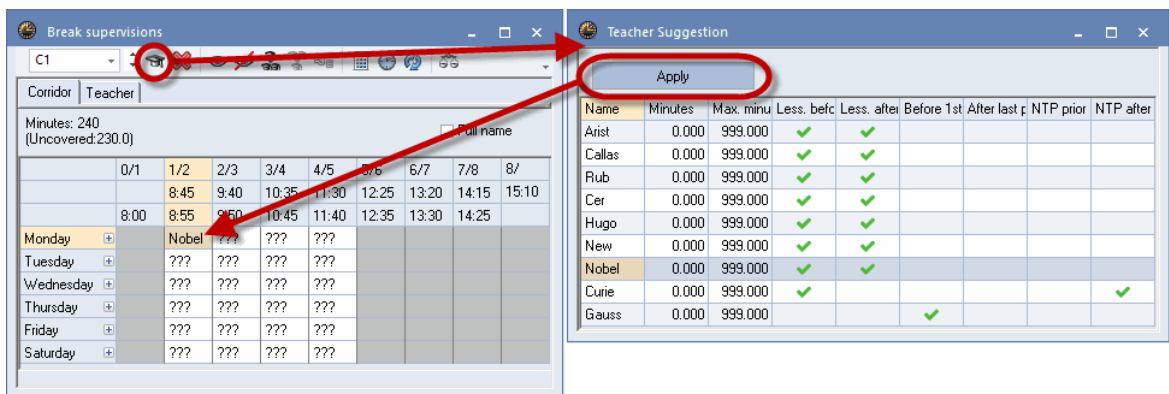
When all is set you can start the automated scheduling tool by clicking on the <Optimisation> button. The outcome is immediately shown in the 'Break supervisions' window. A cell highlighted in red means that no ideal teacher was found and therefore a compromise was scheduled.



2.5 Manual scheduling

You can schedule break supervisions manually, as well.

Click on the 'Teacher suggestions' button and select a suitable teacher. Click on 'Apply'



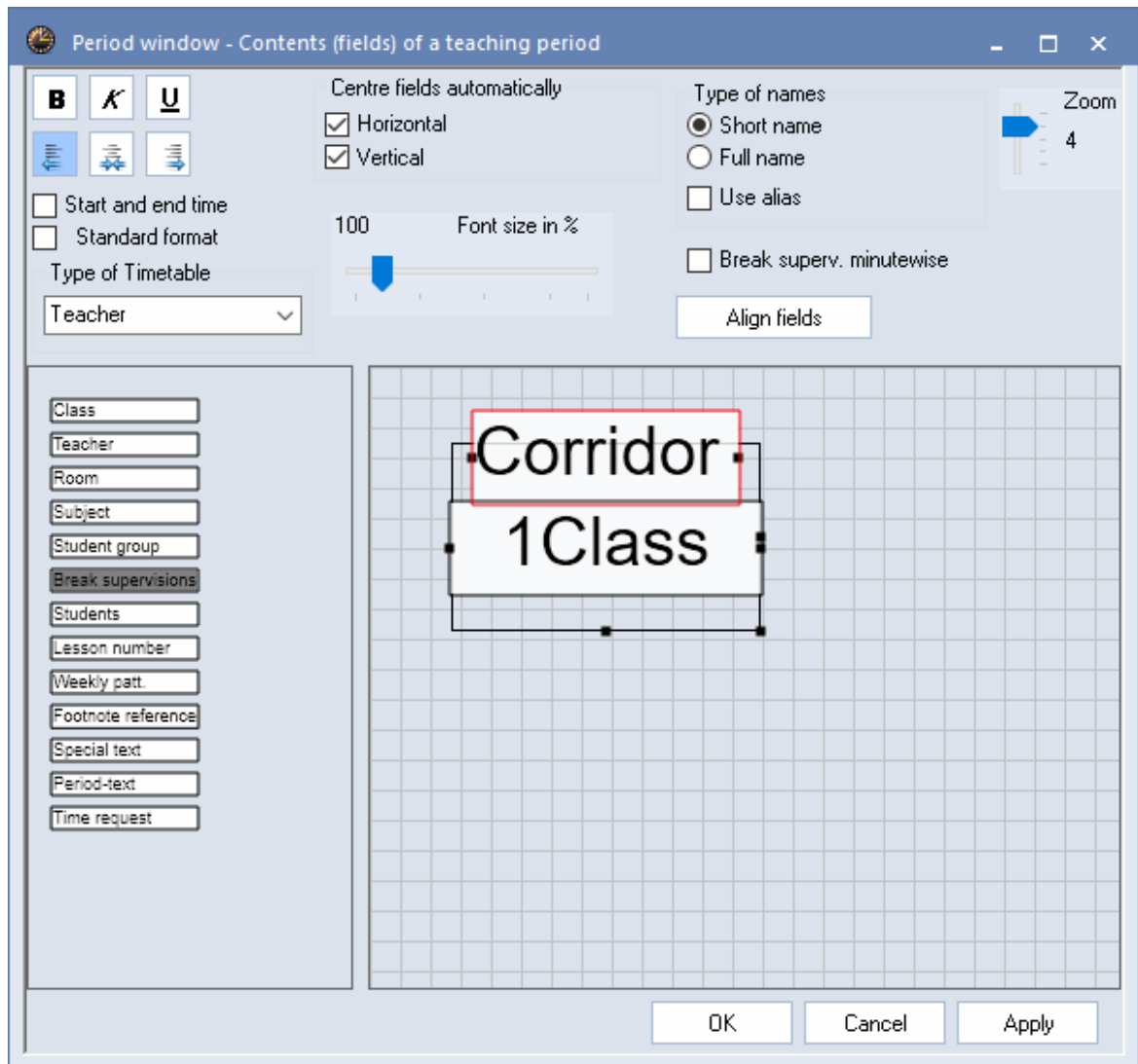
2.6 Timetable display

Scheduled break supervisions are displayed as little boxes between periods in the teacher timetables.

School year: 17.9.2018 - 29.6.2019

	Mo	Tu	We	Th	Fr	Sa
1	4.	2b		3a	3b	3b
2	2b			3b	2b	C1
3	2a			2a	2a	3b
4	3b	2b		2a	2b	3a
5	3b	2a		C1	2a	
6					2a.	
7						
8				4.		

When you right-click into the timetable and select 'Period window', you can adjust the layout as you wish.



2.7 Effect on cover schedule

Break supervisions also need to be covered. If an absent teacher would have had break supervision duty, during his or her absence, a line of the type 'Break supervision' is created in the 'Substitution' window.

Subst. No.	Substitute	Period	Subject	Class(es)	Room	(Teacher)	Type	Substitution text	Signature	Stat. code(s)	Counter canc.	Counter subst.
1	???	1	PEB	4	SH1	*New	Substitution				<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	???	2	MA	2b	R2b	New	Substitution				<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	???	2/3			Ar1	New	Break supervision				<input type="checkbox"/>	<input type="checkbox"/>
3	???	3	MA	2a	R2a	New	Substitution				<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	???	4	PH	3b	PL	New	Substitution				<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	---	5	MA	3b	---	New	Cancelled				<input checked="" type="checkbox"/>	<input type="checkbox"/>

3 Cover Planning Express

The timetable provides the basis for all processes in school. It requires a lot of efforts to set up and it is nice when it is finally finished. However, it is seldom executed as intended. Work must be

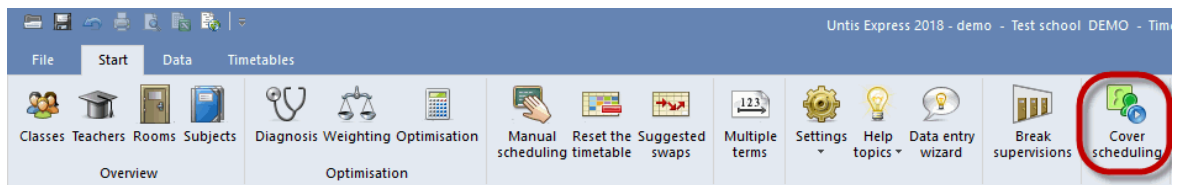
performed on it every day. When a teacher is ill, a colleague takes part in professional development or a class visits a museum, changes must be made to the timetable. Cover must be found for the colleague who is ill, except for the class on the trip to the museum. The lesson of the colleague on skills enhancement will not take place if it is the last morning period.

The timetable also provides the main basis for finding cover staff. It can find out who is in the school and is available. It knows who also teaches the class. It can also provide information on who can teach the subject in the period in question.

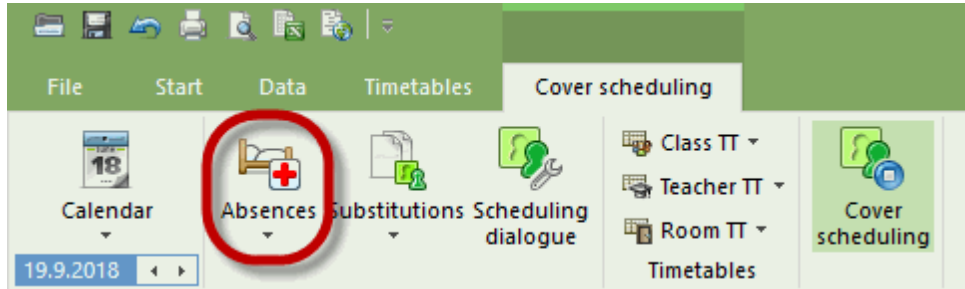
It is a complex and fascinating topic. The Untis Express Cover Planning module is the result of many years of experience in the field.

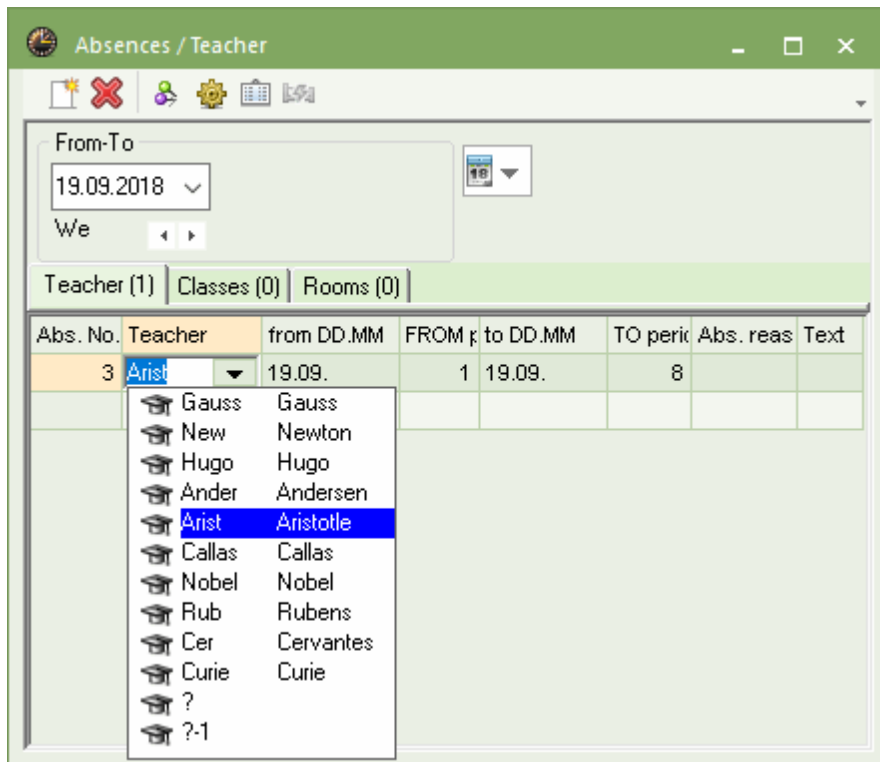
3.1 Example

1. Open the file DemoL.gpn, go to the tab 'Start' and click on the 'Cover scheduling' button.

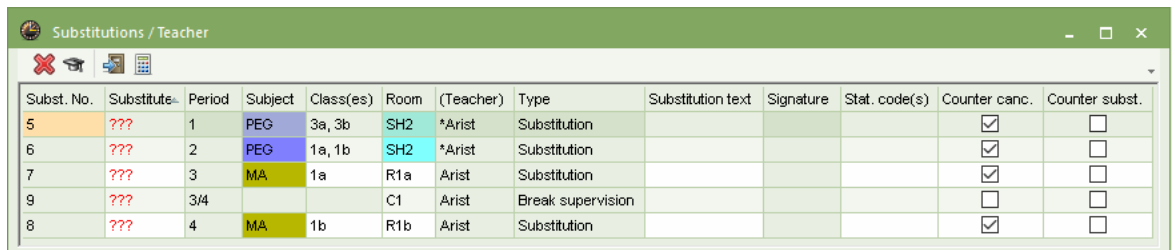


2. Click on the now displayed 'Cover scheduling' tab the 'Absences' button and select a day in the school year from the [calendar](#) in the [Absences window](#). Selecting the teacher short name (Arist) marks the teacher Aristoteles absent for the day.

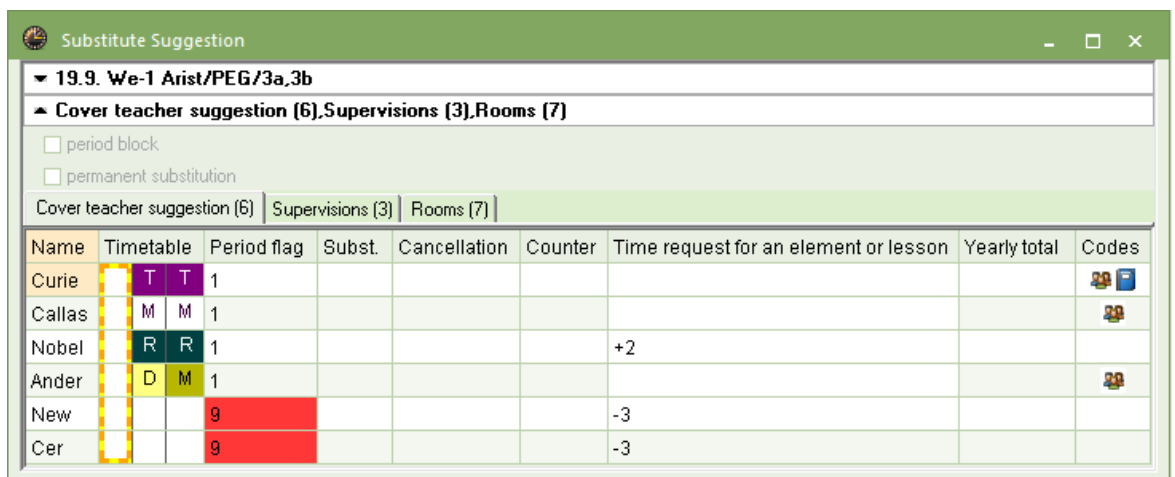




- Now switch to the [Substitutions window](#) by clicking on the <Substitutions> button. This will show the open substitutions for the day.



Now a suitable substitution must be found for the 1st period. Click on the first row in the view and then on the < [Suggestion](#) > button (black mortarboard). The suggestion lists the teachers available for this period, and you can select a suitable teacher with double click.



Instead of the three red ??? the selected teacher appears in the column 'Substitute', a substitution for the first period is found and the process is finished.
The name of the selected teacher will be displayed in the "Substitute" column, and cover planning for the first period is finished.

- Once you have processed all substitutions you can select <Print> or <Print Preview> to print the substitutions list, either for teachers or for classes.

Test school DEMO Timetable 2018/2019 **Untis 2018**
For demo and test only Valid from: 10 October 26.7.2017 9:22

Teacher 19.9. / Wednesday

New Newton

Subst. No.	Substitute	Period	Subject	Class(es)	Room	(Teacher)	Type	Substitution text
6	New	2	PEG	1a, 1b	SH2	Arist	Subst.	

Hugo Hugo

Subst. No.	Substitute	Period	Subject	Class(es)	Room	(Teacher)	Type	Substitution text
9	Hugo	3/4			C1	Arist	Break supervision	

Express Stundenplan 2018/2019 **Untis 2018**
Handbuch Gilt ab: 10. Oktober 10.3.2017 7:52

Klasse 3.9. / Montag Woche-A

1a Klasse 1a (Gauss)

Vtr-Nr.	Klasse(n)	Stunde	Fach	Vertreter	Raum	(Lehrer)	Art	Vertretungs-Text	Unterschrift	Statistik
5	1a	1	E	Gauss	R1a	Arist	Vertr.			
8	1a, 1b	4	SportM	Nobel	Th2	Arist	Vertr.			

1b Klasse 1b (Newton)

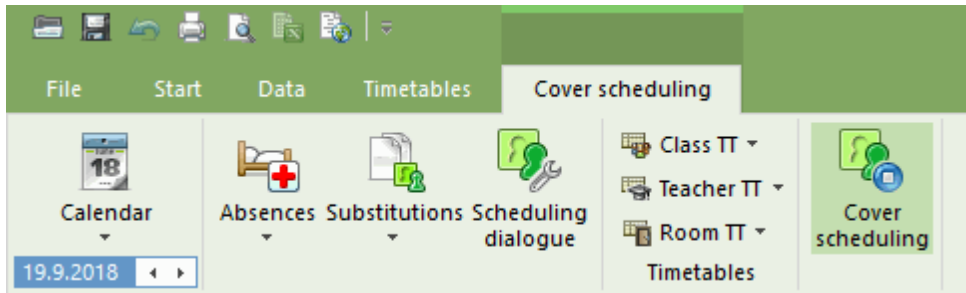
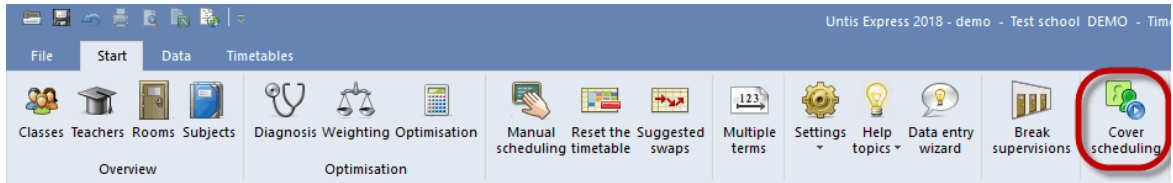
Vtr-Nr.	Klasse(n)	Stunde	Fach	Vertreter	Raum	(Lehrer)	Art	Vertretungs-Text	Unterschrift	Statistik
6	1b	2	Mat	Gauss	R1b	Arist	Vertr.			
8	1a, 1b	4	SportM	Nobel	Th2	Arist	Vertr.			

3.2 Settings

Before you can work with cover planning you must first switch to the [cover planning mode](#). In the [substitution time grid](#) you can specify the time range in which periods shall be covered. You can also define [reasons of absence](#) that can then be assigned to the absence in question.

3.2.1 Activating cover scheduling mode

You can activate Untis Express cover scheduling via the <Cover scheduling> button on the 'Start' tab. The <Cover scheduling> tab which is only visible when you are in the cover scheduling mode will be displayed to indicate that you are now in cover scheduling mode.



Note:

Cover scheduling functions like an independent application within Untis. The screen settings in the Untis mode and the cover scheduling mode are different. When you exit the cover scheduling mode, the original Untis window settings will be restored and vice versa.

You can exit the cover scheduling mode by clicking on the <Cover scheduling> button once more.

3.2.2 Time grid

First you should specify in the time grid (button on the 'Data' tab) the period or time when substitutions are required. In some schools it is normal not to provide cover for the last period in the morning and the afternoon and to cancel the lesson instead.

Here you can activate those periods in which cover is generally provided at your school.

	1	2	3	4	5	6	7	8
	8:00	8:55	9:50	10:45	11:40	12:35	13:30	14:25
	8:45	9:40	10:35	11:30	12:25	13:20	14:15	15:10
Monday	x	x	x	x				
Tuesday	x	x	x	x				
Wednesday	x	x	x	x				
Thursday	x	x	x	x				
Friday	x	x	x	x				
Saturday	x	x	x	x				

Move the cursor over the respective period of time (e.g. Mo-1 to Fr-5) holding the left mouse button down and then click on the <Substitution> button.

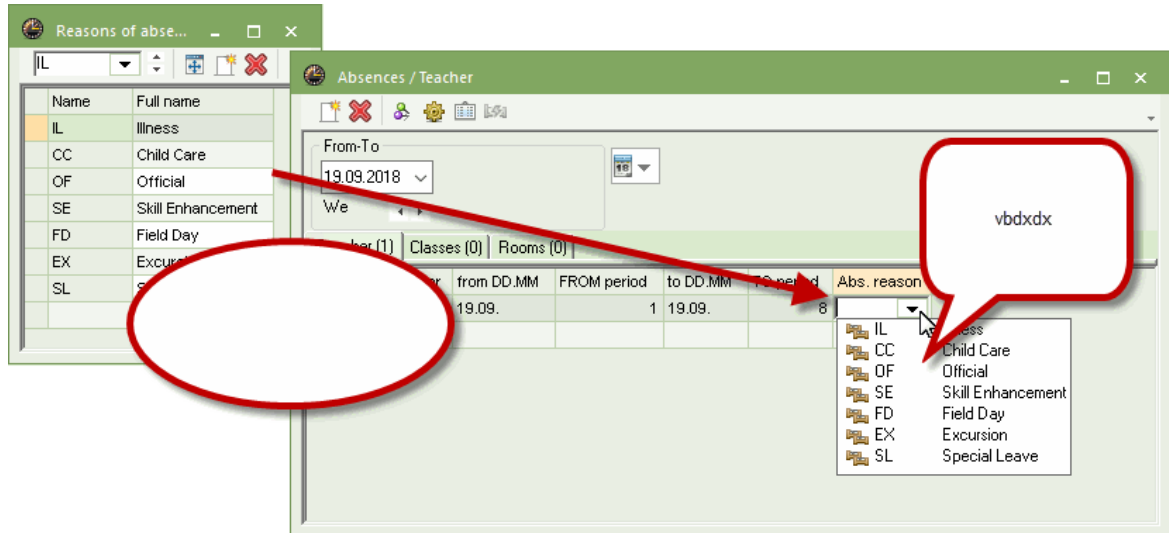
Note:

If you still want to cover a canceled period you can enter it in the substitution window at any time.

3.2.3 Absence reasons

On the tab 'Cover scheduling' you can define reasons of absence with short name and full name. Either you click on the little arrow below the <absences> button and choose 'Reasons of absence' or you just click on the <Absences> button, then the respective window is opened with the pre-defined window group.

A reason of absence (e.g. illness, further training) can then be assigned to each absence in the [Absences window](#) (opened also by clicking on the right mouse button and by selecting 'Absences').

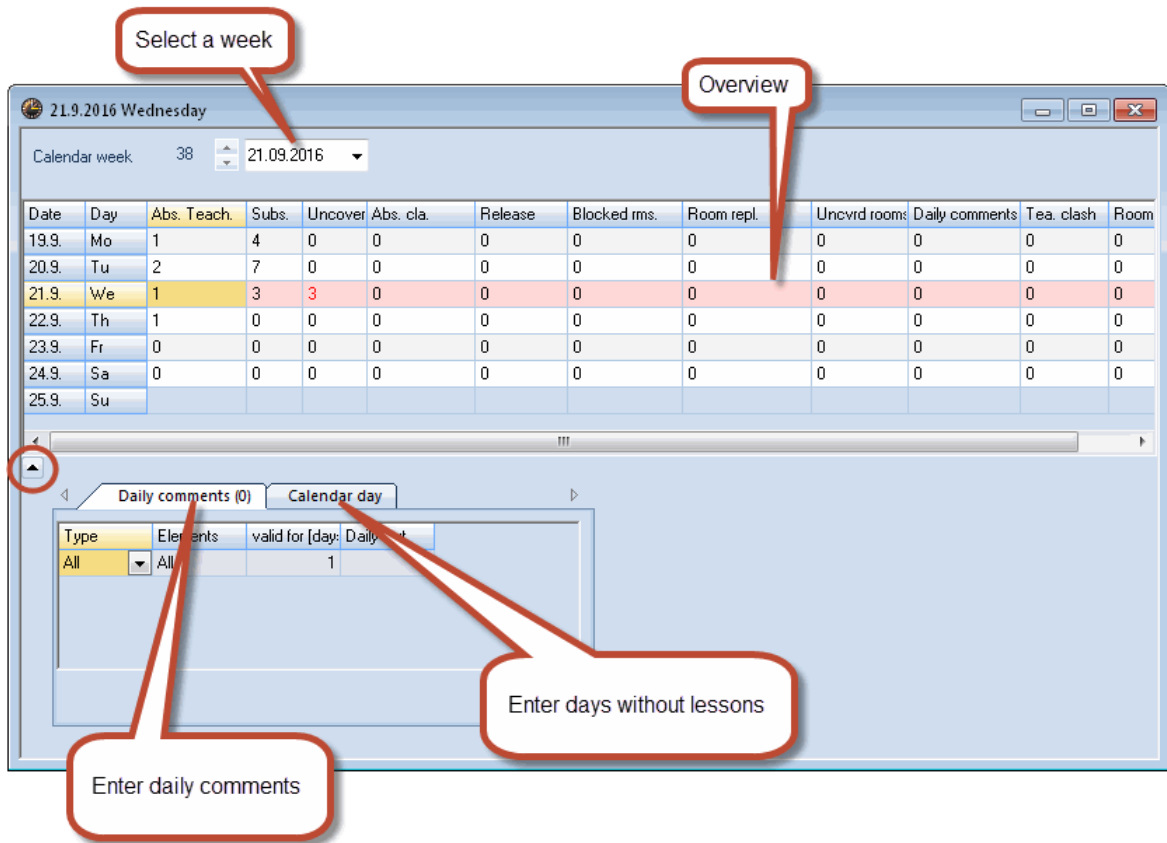


3.3 Calendar

Open the calendar by clicking on the 'Calendar' button on the 'Cover scheduling' tab. It gives an overview regarding any numbers you need in scheduling covers. Select a day, enter days on which there is no school or create messages for the day for cover scheduling.

Note:

As you are used to it in Untis, the windows communicate with each other, e.g. by selecting a date in the calendar the absence window is set to this date, too.



The calendar has the following layout:

- The date is selected in the section at the top.
- In the centre section you see an overview of the substitution and cover situation and you can select a specific day.

By clicking on the little black arrow at the bottom left the lower section is opened.

- In the lower section on the tab '[Daily comments](#)' you can create and edit comments regarding time or time periods.
- On the tab '[Calendar day](#)' you can define non-teaching times.

3.3.1 Details window calendar

The details window show the following information for each day:

Date	Day	Abs. Te.	Subs.	Uncover	Abs. cla.	Release	Blocked	Room re	Uncvrd	Daily co.	Tea. cla.	Room cl
24.9.	Mo	0	0	0	0	0	0	0	0	0	0	0
25.9.	Tu	0	0	0	0	0	0	0	0	0	0	0
26.9.	We	0	0	0	0	0	0	0	0	0	0	0
27.9.	Th	0	0	0	0	0	0	0	0	0	0	0
28.9.	Fr	0	0	0	0	0	0	0	0	0	0	0
29.9.	Sa	0	0	0	0	0	0	0	0	0	0	0
30.9.	Su											

Abs.Teach. ...the number of absent teachers

Subs. ...the number of substitutions resulting of the absences

Uncovered ...the number of still uncovered substitutions which need to be covered

Abs.cla. ...the number of absent classes

Release. ...the number of releases as a result. These are periods in which teachers are available (released) due to the absence of classes.

Blocked rms ...the number of blocked rooms

Room repl. ...the number of room replacements as a result

Uncvrd rooms ...the number of uncovered room replacements which are still to be found for the alternative room

Daily comments ...shows the number of daily comments entered on the respective day

Note: uncovered substitutions

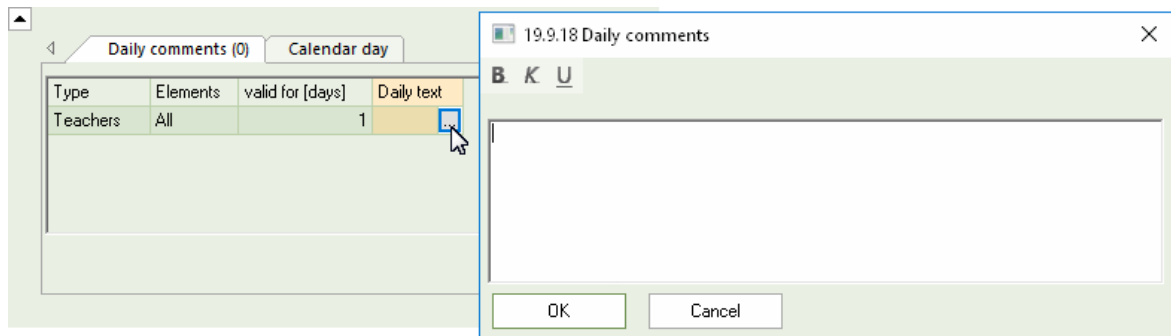
Not yet covered substitutions are also displayed in red.

3.3.2 Daily comments tab

You can use a Daily commentst to add additional information to the substitution lists. The daily comments can be displayed in all substitution lists or you can restrict them to either teachers or to classes. You can also send texts just to certain classes or teachers.

Proceed as follows to enter a daily comment:

1. Select the elements for which the daily text is to be output in the 'Type' and ' Elements' columns.
2. Then click on the button displayed in the right of the daily text column to open a window allowing you to enter the daily text.



3. The daily text will now be displayed in the corresponding lists.

Class 19.9. / Monday

Daily comments for all: Today the kitchen is closed!
Examen preparation!

Daily comments for classes: **2b** Class 2b (Andersen)

Subst. No.	Class(es)	Period	Subject	Substitute	Room
296	2b	1	DE	???	R2b
299	2b	7 - 8	AR	---	---

Daily comments for teachers:

Teacher 19.9. / Monday

Today the kitchen is closed!
Don't forget the conference!

--- Cancellations

Subst. No.	Substitute	Period	Subject	Class(es)	Room	(Teacher)	T:
296	???	1	DE	2b	R2b	Callas	Si
297	???	3 - 4	AR	4		Callas	Si
299	---	7 - 8	AR	2b	---	Callas	C

Gruber & Petters Software

3.3.3 Calendar day tab

On the tab 'Calendar day' you can either set the whole day as a non-teaching day or only certain hours. In non-teaching times no substitution is generated.

Regular school day
 Public holiday
 No lessons
 Only these periods free of lessons

No reason

Remarks

The remarks (for the day) field is dedicated to reminders for the substitution scheduler only, i.e. it cannot be printed.

3.4 Substitutions window

As soon as an absence is entered, the substitutions window immediately displays the resulting substitutions. You can open the substitutions window either via the context menu (with a right mouse click) or via the <substitutions>button on the 'Cover scheduling' tab.

Subst. No.	Substitute	Period	Subject	Class(es)	Room	(Teacher)	Type	Substitution text	Signature	Stat. code(s)	Counter
321	???	3/4			Ar2	Cer	Break supervision				
319	???	3	DE	2a	R2a	Cer	Substitution				
320	???	4	EN	3a	R3a	Cer	Substitution				
313	???	1	HI	1b	R1b	Ander	Substitution				
322	???	1	MA	2b	R2b	New	Substitution				
323	???	2	MA	3b	Ra	New	Substitution				
314	???	3	MA	4	R3a	*Ander	Substitution				
317	???	1	BI	1a	R1a	Cer	Substitution				
318	???	2	BI	1b	R1b	Cer	Substitution				
324	???	3	PH	3a	PL	New	Substitution				
325	???	4	PH	3b	PL	New	Substitution				

Besides the date and lesson period, the substitution also displays the elements involved in the substitution (subject, class, room). The '(Teacher)' column contains the name of the teacher who would normally be taking the lesson and the 'Substitute' column contains the name of the substitute allocated to the substitution.

You can also enter a substitution text of your choice.

When the substitutions are printed out, the substitute can use the initials field to indicate that he/she acknowledges the substitution.

Type of substitution

This column indicates the type of substitution. It cannot be edited and serves purely informational purposes.

Substitution

:

This is a "normal" [substitution](#)

, i.e. the period of an absent teacher will be covered by another teacher.

Supervision

:

Supervision takes place when a teacher supervises a class whose teacher is absent in addition to his/her own regular lesson (please refer to chapter "[Supervision suggestion](#)")

)

Cancellation

:

A lesson where no cover is provided for the absent teacher is designated cancelled.

Release

:

A release is a period where a teacher is made available (released) due to the absence of a class that he/she would normally have to teach.

Room.repl

::

If a replacement room needs to be allocated to a period instead of the room originally scheduled, this is a Room replacement (please also refer to chapter "[Room replacement](#)")

).

Special duties

:

A special duty is understood to be a lesson that needs to be held at short notice and which can be entered in the [Scheduling dialogue](#)

or directly into the timetable (please refer to chapter "[Special duties](#)")

).

Shifting

:

This entry indicates that a lesson period was relocated here from another period (please refer to chapter "[Shifting periods](#)")

).

Swap

:

A swap of two periods (please refer to chapter "[Swapping periods](#)")

).

Teacher swap

:

A teacher swap occurs when a teacher is allocated in a period when he/she also has a lesson and this has to be taken by another teacher.

Contrary to absence

:

A teacher is allocated to a substitution although he/she is absent..

3.4.1 Processing substitutions

After [absences](#) have been entered, substitution rows will be displayed in the [substitutions window](#) that need to be processed individually. You have the following possibilities, which are explained in detail below:

- [Cancellation](#)
- [Substitution](#)
- [Supervision](#)
- [Room allocation](#)

3.4.1.1 Cancellation

There are two types of cancellation: there is the substitution type 'cancellation' and the <Cancelled> button in the substitutions window.

Substitution type

The 'Cancelled' type designates a lesson where there is no cover for the absent teacher and which is therefore cancelled. You specified in the [substitutions time grid](#) when cover should by default be provided and when periods should be cancelled. It is therefore possible that certain lessons are set to 'cancelled' immediately after an absence is entered.

Button

The <Cancelled> button allows you to change any open (i.e. not yet processed) and any already processed substitutions to 'cancelled'.



Note: Cancellation -> substitution
 If you wish to change a cancellation back into an open substitution, click once more on the <Cancelled> button.

3.4.1.2 Substitution

There are three ways of adding a substitute to an open substitution :

- Simply enter the desired substitute in the 'Substitute' column.
- Select the substitute from a drop-down list.

Subst. No.	Substitute	Period	Subject	Class(es)	Room	(Teacher)	Type	Substitution text	Signature	Stat. code(s)	Counter canc.	Counter subst.
300	???	1	BI	1a	R1a	Cer	Substitution				<input checked="" type="checkbox"/>	<input type="checkbox"/>
305	Ander		Andersen	2b	R2b	New	Substitution				<input checked="" type="checkbox"/>	<input type="checkbox"/>
296	Arist		Aristotle	1b	R1b	Ander	Substitution				<input checked="" type="checkbox"/>	<input type="checkbox"/>
301	Callas		Callas	1b	R1b	Cer	Substitution				<input checked="" type="checkbox"/>	<input type="checkbox"/>
306	Cer		Cervantes	3b	Ra	New	Substitution				<input checked="" type="checkbox"/>	<input type="checkbox"/>
307	Curie		Curie	3a	PL	New	Substitution				<input checked="" type="checkbox"/>	<input type="checkbox"/>
302	Gauss		Gauss	2a	R2a	Cer	Substitution				<input checked="" type="checkbox"/>	<input type="checkbox"/>
297	Hugo		Hugo	4	R3a	*Ander	Substitution				<input checked="" type="checkbox"/>	<input type="checkbox"/>
304	New		Newton		Ar2	Cer	Break supervision				<input type="checkbox"/>	<input type="checkbox"/>
303	Nobel		Nobel	3a	R3a	Cer	Substitution				<input checked="" type="checkbox"/>	<input type="checkbox"/>
308	Rub		Rubens	3b	PL	New	Substitution				<input checked="" type="checkbox"/>	<input type="checkbox"/>
309	?			4	SH1	*New	Personal studies				<input checked="" type="checkbox"/>	<input type="checkbox"/>
	???	4	PH	3b	PL	New	Substitution				<input checked="" type="checkbox"/>	<input type="checkbox"/>
	+	6	PEB	4	SH1	*New	Personal studies				<input checked="" type="checkbox"/>	<input type="checkbox"/>

- However, in most cases you will want to access additional information. The substitution suggestion is the ideal solution for this.

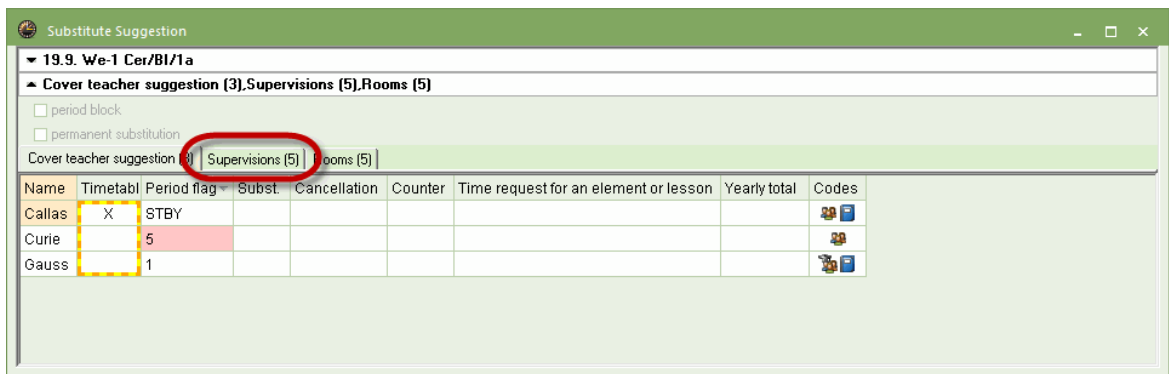


This function suggests a list of possible substitutes. As you see, for the current substitution Callas, Curie, Nobel and Cer are available as substitutes. Double clicking on the name adds the desired teacher as substitute.

The individual fields in this list are explained in detail in the chapter on '[Substitute Suggestion](#)'.

3.4.1.3 Supervision

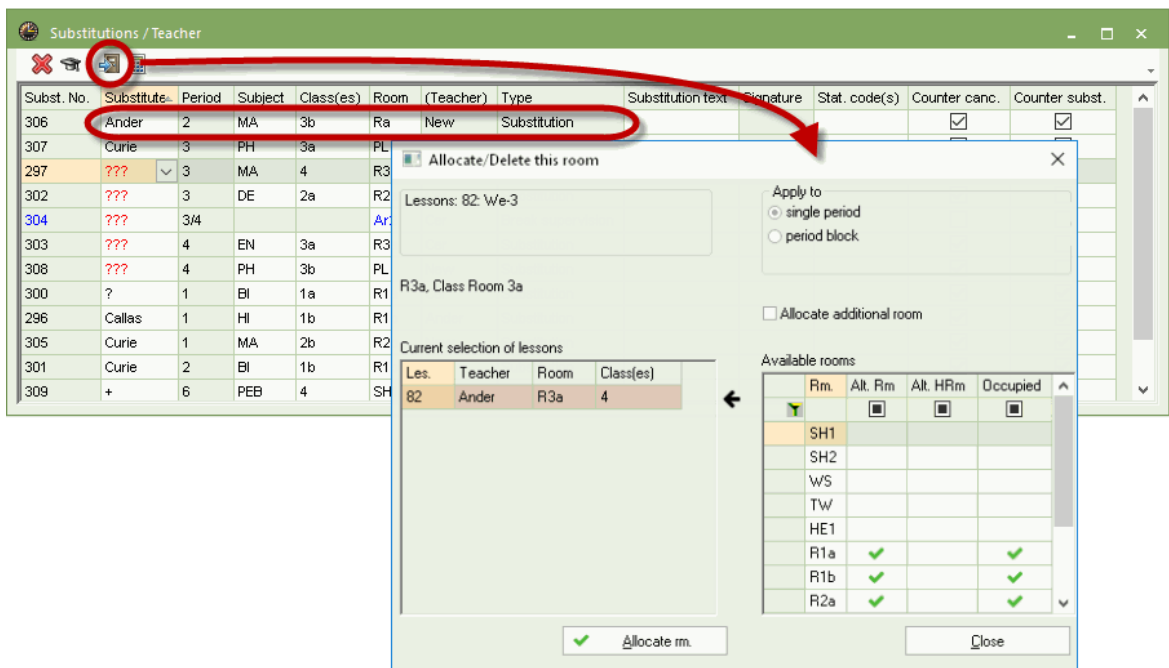
You will find the <Supervision> button in the top left of the substitute suggestion window. When this button is activated, all teachers will be displayed who are available for supervision, i.e. who have a lesson in the current period.



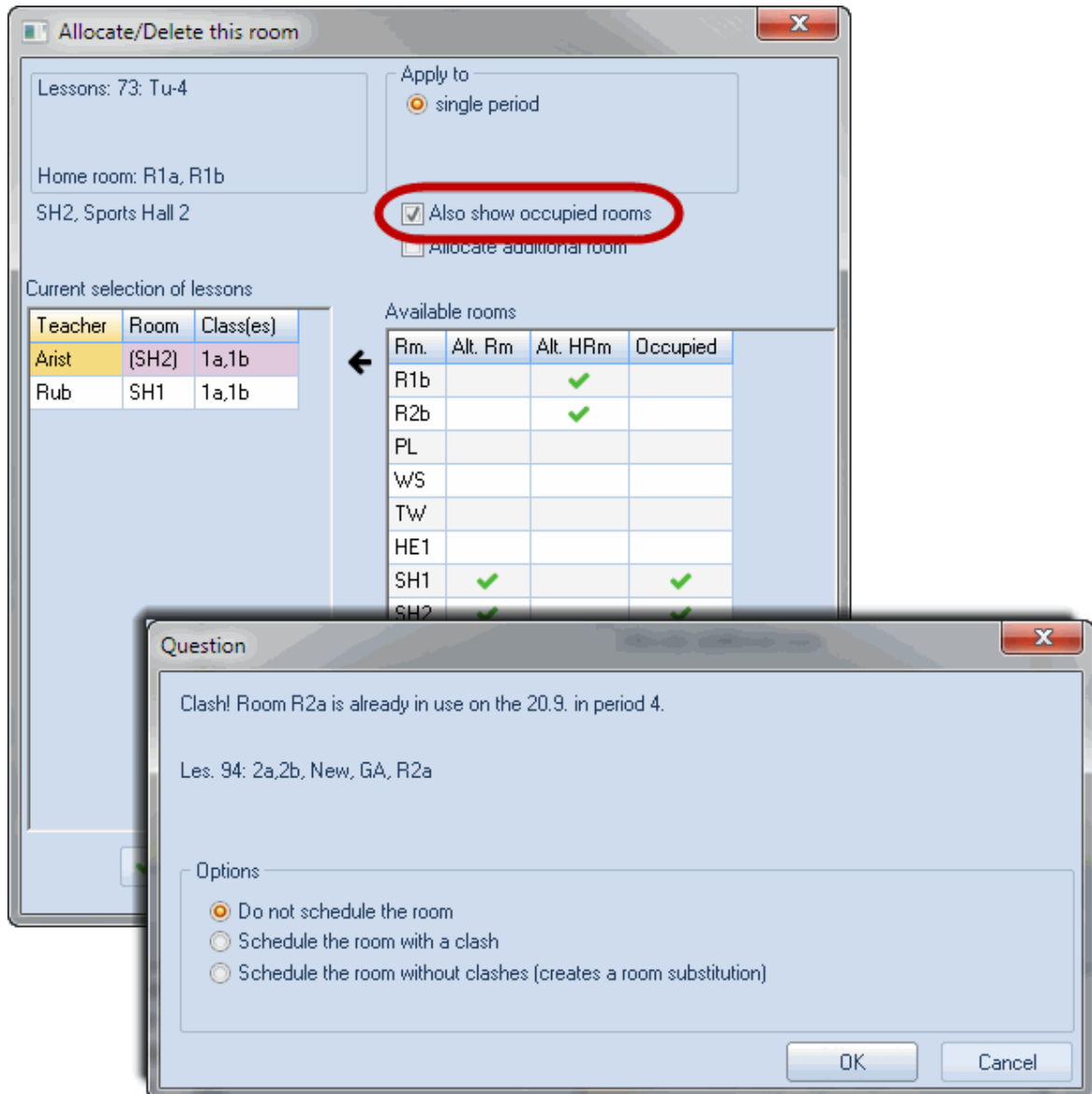
You will find more details on this in the chapter '[Supervision suggestion](#)'.

3.4.1.4 Room replacement

If a room is blocked, another room must be allocated in its place. You can use the <Allocate/Delete this room> button to find a suitable replacement room for the lesson. The highlighted room can be added to the list with a double click or with the <Allocate rm.> button.



The room allocation dialogue allows you to display and select already occupied rooms, too.



Selecting an occupied room results, quite naturally, in a conflict, which you can resolve with one of the proposed options, as illustrated in the figure above.

3.5 Suggestion

This function opens a list of possible substitutes with the 'most suitable' candidates at the top of the list. A substitute can be selected by double clicking on his/her name .

Tip: Displaying/hiding columns

Clicking on the header row in the Substitute suggestion window with the right mouse-button displays a context menu in which columns that are not required can be hidden. You can use drag&drop to change the order of the columns.

Name	Stundenplan	Merker zur Stunde	Vertr.	Entfall	Zähler	Fach	Zeitwünsche zum Element	Jahres-Zähler	Kennzeichen
Curie	Tw Tw	1							
Nobel	Rel Rel Rel	1					+2		
Cer		9					-3		
New		9					-3		

The 'most suitable' candidate is the teacher at the top of the list. The order is determined based on the following criteria.

Period flag

The period flag is an indicator representing how good the substitute matches the teacher's timetable. It defines the 'gap' to the next 'regular' period.

Period flag x:

The teacher concerned was released due to an absent class and instead of his regular lessons he would have a free period.

Period flag 0:

Non-teaching period between two lessons.

Period flag 1:

The period to be covered is directly adjacent to a 'regular' lesson.

Period flag 2:

There is one free period between the period to be covered and the next 'regular' lesson.

Period flag 3-8:

Similar to period flag 2.

Period flag 9:

The teacher has no lessons on the respective day. Therefore the 'Period flag' is highlighted in red.

Counter

The counter is a total made up of substitutions and cancellations.

Substitutions that the teacher has performed are set off against lesson cancellations (e.g. resulting from class absences). You can choose the period to be taken into consideration in the settings. The number will be negative, if cancellations outweigh substitutions. The candidate has a 'substitution deficit', the counter is displayed green meaning that he/she can be deployed in substitutions.

Yearly total

The year total functions in a similar way to the counter. The period taken into consideration here is the school year.

Substitutions, Cancellations

Substitutions and cancellations, which are the basis for the calculation of the counter, are displayed separately in these two columns. This allows you to consider the numbers separately when making up your mind about the substitution.

Last week

If a substitution was performed in the previous week by a teacher from the substitute suggestion, this will be displayed green in 'Last week' column and marked with a check sign.

Class

A class symbol in this column indicates that the teacher concerned teaches the class.

Subject

If you see a book symbol here, the proposed teacher teaches the subject of the open substitution.

Supervisions

This column displays the number of supervisions in the month (please also refer to the chapter ['Supervision suggestion'](#) below)

Time requests

This is where any time requests of the substitution candidate are displayed.

Periods / day

This field displays the periods for the proposed teacher on the respective day.

Points

Points are awarded for each criterion (period flag, counter etc.). These are penalty points meaning that the teacher with the lowest number of points (most negative number) is the most suitable candidate.

'Timetable' column

This column enables you to graphically check the qualifications as a substitution based on the periods to be covered (framed) in the timetable.

The screenshot shows the 'Vertretungsvorschlag' window for '19.9. Mi-1 Arist/SportM/3a,3b'. The main table has the following columns: Name, Stundenplan, Merker zur Stunde, Vertr., Entfall, Zähler, Fach, Zeitwünsche zum Element, Jahres-Zähler, and Kennzeichen. The rows are: Curie (1 Tw, Tw), Nobel (1 Rel, Rel, Rel), Cer, and New. Annotations include: 'Gesamte Spaltenbreite' pointing to the top of the table; 'Breite der Stundenplanfelder verändern' pointing to the 'Stundenplan' column; and 'Rechtsklick für Inhalt der Felder' pointing to a context menu with options 'Fach', 'Klasse(n)', and 'Raum' over the 'Merker zur Stunde' column.

Name	Stundenplan	Merker zur Stunde	Vertr.	Entfall	Zähler	Fach	Zeitwünsche zum Element	Jahres-Zähler	Kennzeichen
Curie	Tw Tw	1							
Nobel	Rel Rel Rel	1					+2		
Cer							-3		
New							-3		

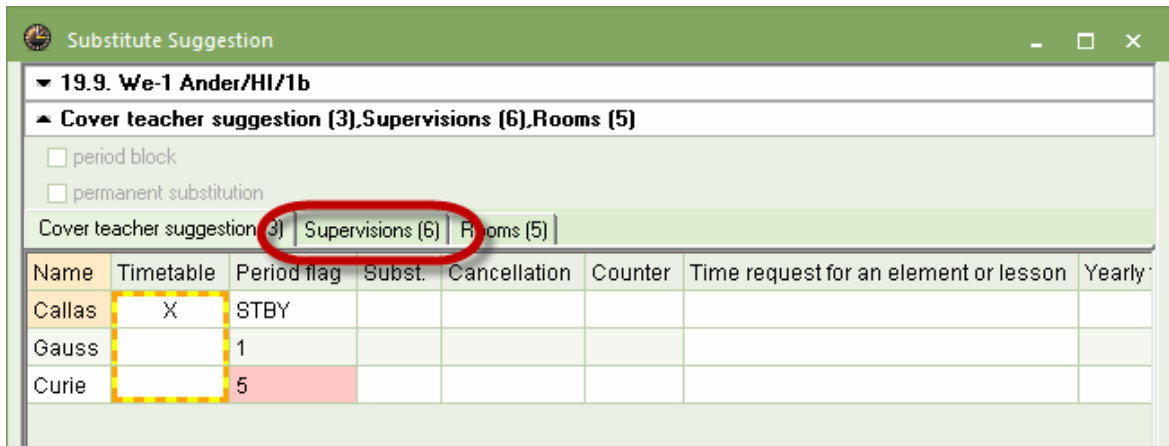
You can widen the whole column in order to be able to see more periods at once or you can adjust the width of the period window. By clicking the right mouse button you can also select what kind of information should be displayed in the fields.

3.5.1 Supervision suggestion

In the case of some lessons the absent teacher is not to be substituted by another teacher who is free at the desired time but by a teacher who teaches in the respective period. This is a supervision.

A version of the [substitute suggestion](#) is the supervision suggestion. This tool displays those teachers who are teaching during the respective period and who thus in principle are available for

supervision.

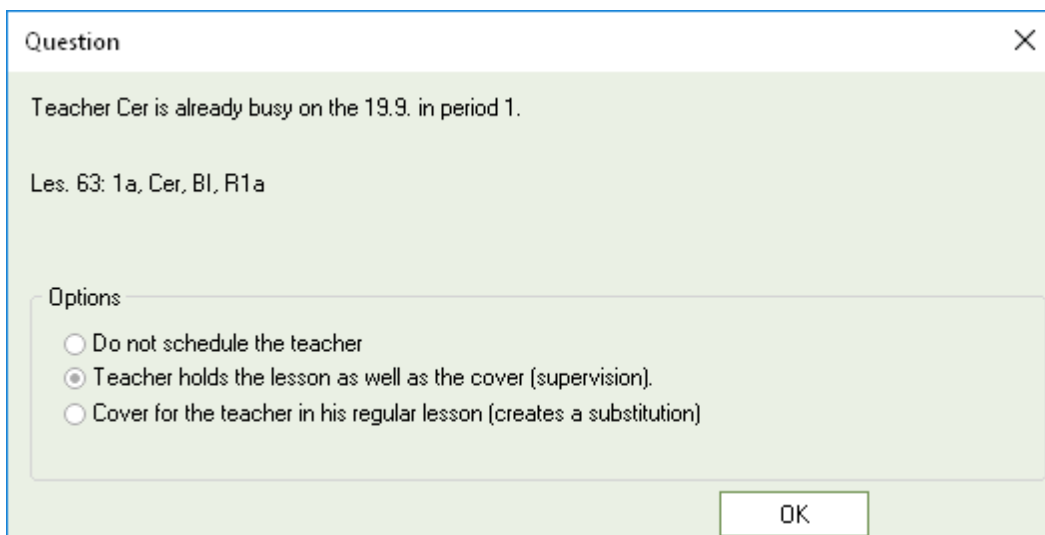


This requires somewhat different information than the conventional [substitute suggestion](#) :

1. Room: the room where the teacher is currently scheduled to teach
2. Subject: the subject taught by the potential supervisor

The other fields are identical with those in the substitute suggestion.

If you are choose a supervisor (by double clicking), you will be asked which option you would like to choose.

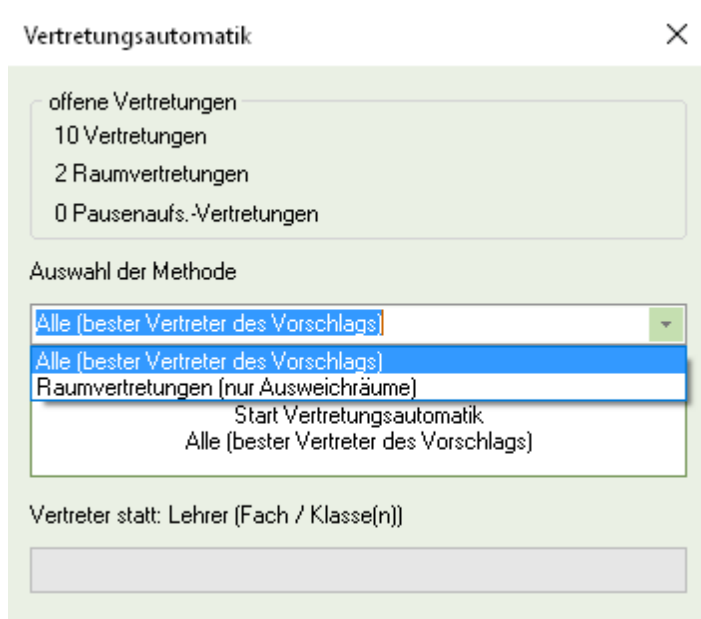


3.5.2 Automatic substitution optimisation

You can process all uncovered substitutions automatically just by clicking the <Automatic> button in the [substitutions window](#) .

The upper section of the window provides an overview of uncovered substitutions.

The "Select the desired method" option allows you to choose whether you wish to process all uncovered substitutions or only room replacements.



You can start the automatic substitution function by activating the appropriate button.

You will see the message "OK" as soon as automatic processing finishes and you will see the number of remaining uncovered substitutions in the top section of the screen.

During the automatic substitution optimisation the teacher at the top of the [substitution suggestion](#) list and thus the one considered the most suitable substitute will be allocated. Only alternative rooms will be allocated as room replacements. If there is no suitable alternative room, the room replacement will remain open and you can look for a free room in the [room allocation dialogue](#).

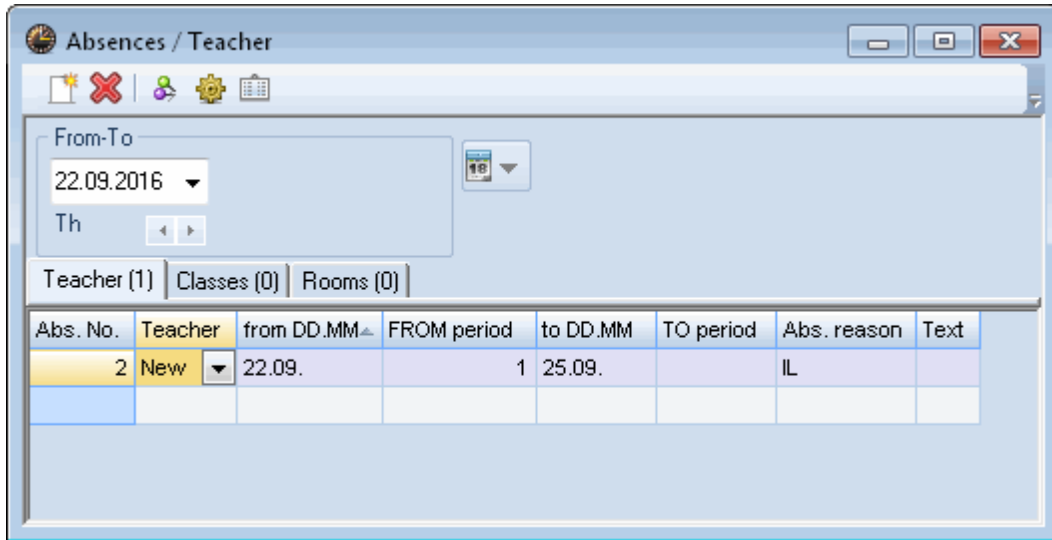
3.6 Entering absences

An Absence is the absence of one of the three master data elements teacher, class or room (in the latter case blocking would be a more accurate expression). The absences window is used to enter and edit absences. You can open the absences window via the 'Absences' button on the 'Cover scheduling' tab or via the context menu displayed when you press the right mouse-button.

Use the tabs in the center section of the window to set the type of element which you want to set as absent, i.e. teacher, class or room. You can also select the date using the little arrow.

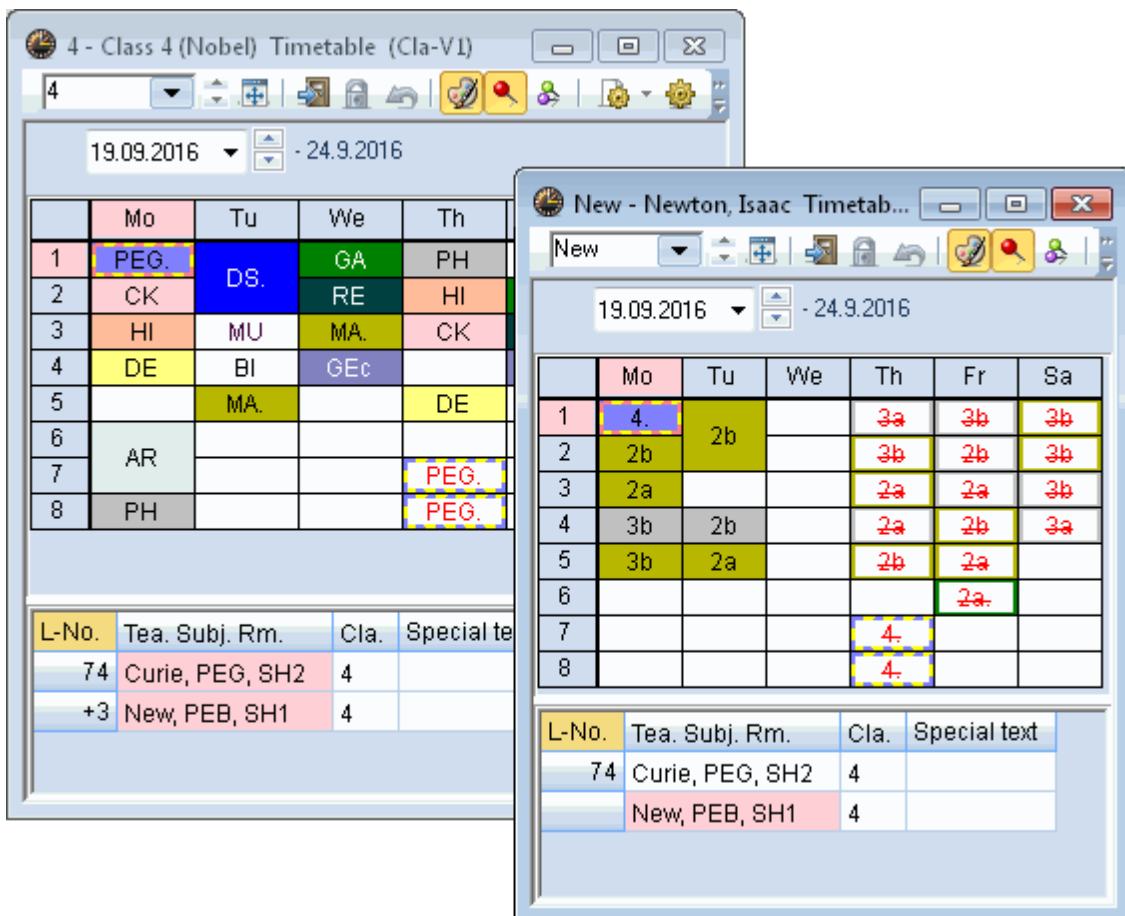
Note: Selecting a period of time

Via the button with the calendar symbol or the 'Settings' you can select the period of time for the absence window: either day, week or a self-defined period of time.



Our example shows an absence for teacher Guass, who will be absent from the first period on 5 September to the eighth period on 11 September. The reason for his absence is Of, i.e. official. A free text can be entered to describe the absence in the 'Text' field.

The effects of absences are seen in the timetable immediately after they were entered. You also can see where substitutions are still required.

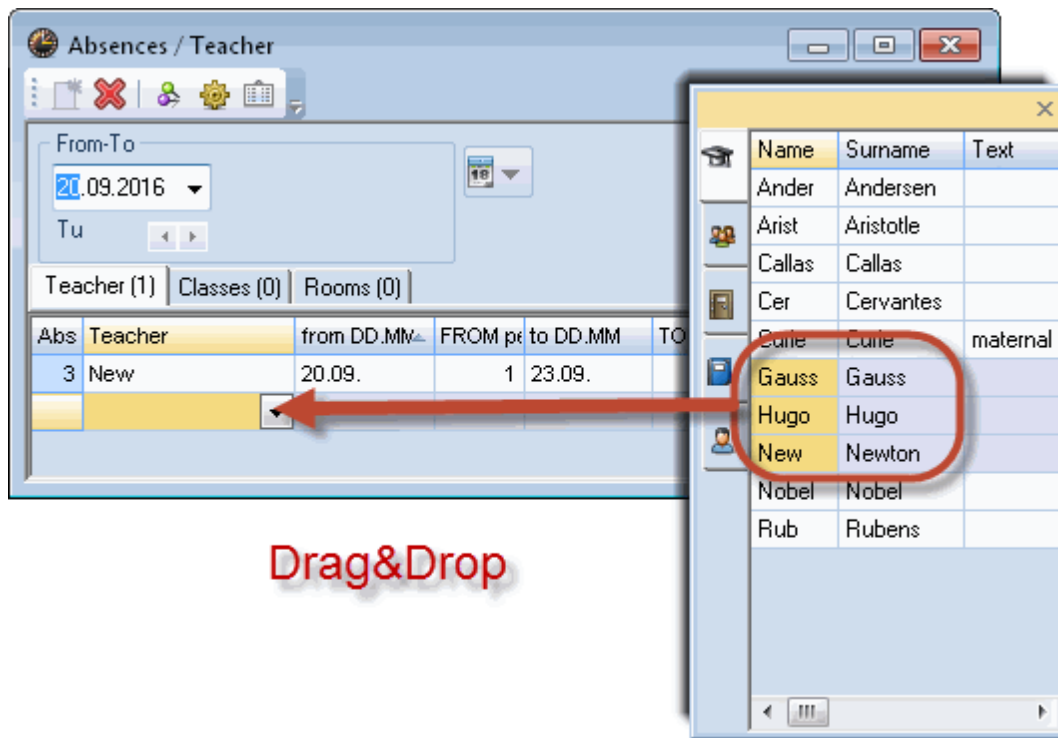


Note: Different types of absence

The absence of a teacher results in [substitutions](#) and [cancellations](#) , the absence of a class in [releases](#) for teachers and the absence (blocking) of a room in [room replacements](#) .

Entering absences with the element-rollup

The element-rollup, which can be applied by clicking on the 'Element-Rollup' button can be used for entering absences, too. This allows you to enter several absences at once.

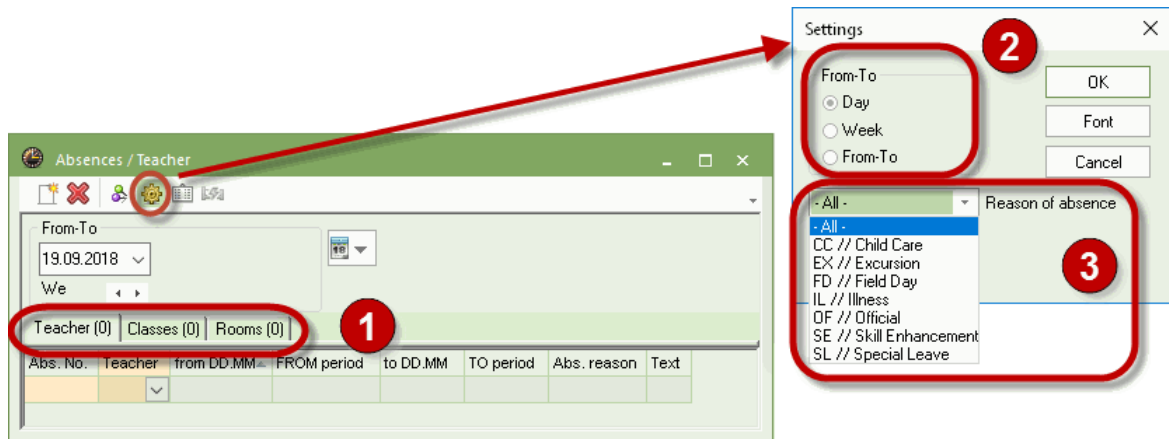
**3.6.1 Filtering and printing absences**

The contents of the absence window grid view are basically printed as displayed on the screen. This means that column and row order is retained.

Filtering

There are three different ways to filter in order to obtain exact information from a large number of absences:

- Filtering by element (1)
- Filtering by period of time(2)
- Filtering by reason of absence (3)



3.7 Events

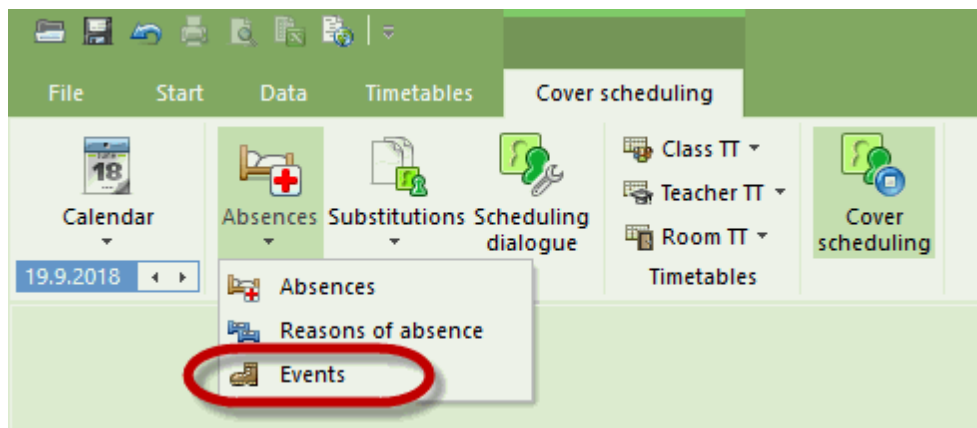
You enter an event when one or several classes are out for an activity such as an excursion, ski courses,....etc.

Note:

Always create events and no absences for classes!
This is very important when working with WebUntis.

3.7.1 Create an event

Go to 'Events' under 'Absences'.



Enter the class, the teacher and the reason in the window.

Note:

Events which take place several times a year can be copied and pasted

In the substitution window the consequent substitutions, releases and cancellations are shown.

3.7.2 Events for student groups

Often not the entire class takes part in an event, but only a part of it. When a class is split in two groups in a lesson, Untis indicates this by the means of student groups. When you define an event and enter the student group, only the 'right' teacher is released.

The screenshot displays two overlapping windows from the 'Cover Planning Express' software. The top window, titled 'Substitutions / Teacher', contains a table of substitution records. The bottom window, titled 'Event / Teacher', shows a detailed view of a specific event.

Subst. No.	Substitute	Period	Subject	Class(es)	Room	(Teacher)	Type	Substitution text	Signature	Stat. code(s)	Counter canc.	Counter subst.
11	Rub	1-8		1a, 1b		Rub	Event				<input type="checkbox"/>	<input type="checkbox"/>
296	Ander	1	---	(1b)	---	Ander	Release				<input checked="" type="checkbox"/>	<input type="checkbox"/>
308	Ander	7	---	(1a)	---	*Ander	Release				<input checked="" type="checkbox"/>	<input type="checkbox"/>
309	Ander	8	---	(1a)	---	*Ander	Release				<input checked="" type="checkbox"/>	<input type="checkbox"/>
299	Arist	4	---	(1b)	---	Arist	Release				<input checked="" type="checkbox"/>	<input type="checkbox"/>
307	Callas	4	---	(1a)	---	Callas	Release				<input checked="" type="checkbox"/>	<input type="checkbox"/>
304	Cer	1	---	(1a)	---	Cer	Release				<input checked="" type="checkbox"/>	<input type="checkbox"/>
297	Cer	2	---	(1b)	---	Cer	Release				<input checked="" type="checkbox"/>	<input type="checkbox"/>
301	Curie	7	---	(1a, 1b)	---	*Curie	Release				<input checked="" type="checkbox"/>	<input type="checkbox"/>
303	Curie	8	---	(1a, 1b)	---	*Curie	Release				<input checked="" type="checkbox"/>	<input type="checkbox"/>
305	Gauss	2	---	(1a)	---	Gauss	Release				<input checked="" type="checkbox"/>	<input type="checkbox"/>
300	Gauss	7	---	(1b)	---	*Gauss	Release				<input checked="" type="checkbox"/>	<input type="checkbox"/>
302	Gauss	8	---	(1b)	---	*Gauss	Release				<input checked="" type="checkbox"/>	<input type="checkbox"/>

Event-nr.	Class	Cl.-Fr.	Teacher	Room	from DD.MM.	FROM p to DD.MM	TO per	Abs. reason	Text	Count
11	1a,1b		Rub		19.09.	1 19.09.	8			<input type="checkbox"/>

3.8 Scheduling in the timetable

You can perform the following cover planning functions directly in the timetable:

- [Move](#)
- [Swap periods](#)
- [Cancellation](#)
- [Special duties](#)
- [Room allocation](#)

3.8.1 Moving periods

Individual periods can be moved using drag&drop in the same way as in the timetable modus.

Empty green fields mean that a move to this position is possible without creating a clash.

	Mo	Tu	We	Th	Fr	Sa
1	EN	MA		MU	MA	BI
2	MU	EN	*PEG.	DE	RE	EN
3	BI	AR	MA	EN	EN	MA
4	*PEG.	AR	DE	MA	DE	
5	TX	RE	DE		TX	DE
6						
7		DS.				
8		DS.			*PEG.	

L-No.	Tea	Subj.	Rm.	Cla.	Special text

If you shift a period using drag and drop, the move will be displayed in the substitutions window. In the example, the religious education period for 1a was moved from Tu-5 (25 September) to Th-6 (27 September).

Subst. No.	Substitute	Period	Subject	Class(es)	Room	(Teacher)	Type	Substitution text	Signature	Stat. code(s)	Counter canc.	Counter subst.
1		5	RE	1a		Nobel	Cancelled				<input type="checkbox"/>	<input type="checkbox"/>

Subst. No.	Substitute	Period	Subject	Class(es)	Room	(Teacher)	Type	Substitution text	Signature	Stat. code(s)	Counter canc.	Counter subst.
2	Nobel	6	RE	1a	R1a	Nobel	Shifting				<input type="checkbox"/>	<input type="checkbox"/>

Moving part of a coupling

If a teacher from a coupled lesson with 2 or more teachers is to be moved, you can perform this in the teacher's timetable. The example shows how PE for boys with teacher Rub was moved out of a coupling of Rub and Arist from Th-7,8 to We-6,7

Rub - Rubens, Paul Timetable Di...

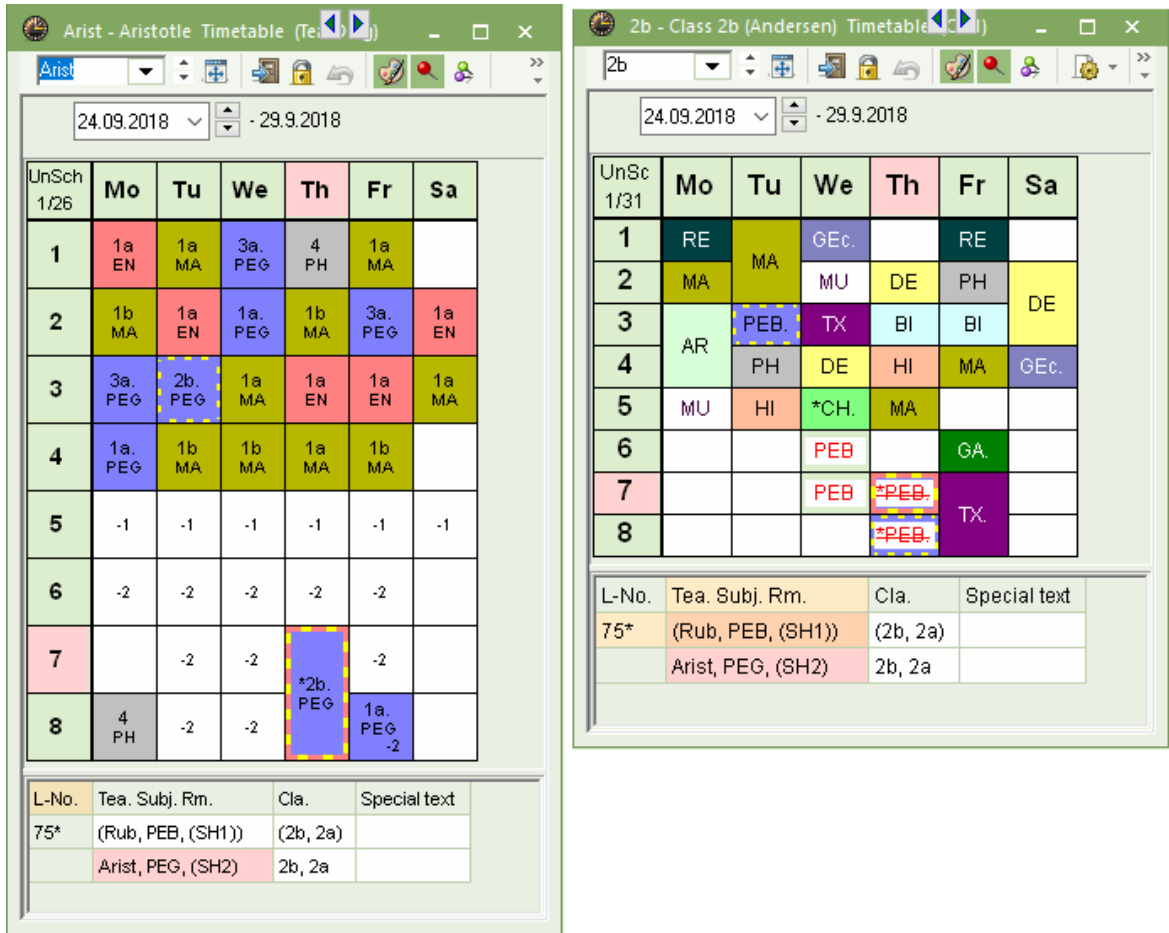
Rub

24.09.2018 - 29.9.2018

UnSch 2/27	Mo	Tu	We	Th	Fr	Sa
1	3a HI	1b DE	3a. PEB	1b DE	4 BI	
2	4 CK		1a. PEB	1a DE	3a. PEB	1b DE
3	3a. PEB	2b. PEB	3a HI	4 CK		
4	1a. PEB	4 BI	1a DE	2b HI	1a DE	
5	1b DE	2b HI	*2a. EN			
6			2b PEB			
7			2b PEB	Shifted away: 26.		
8				Shifted away: 26.	1a. PEB	

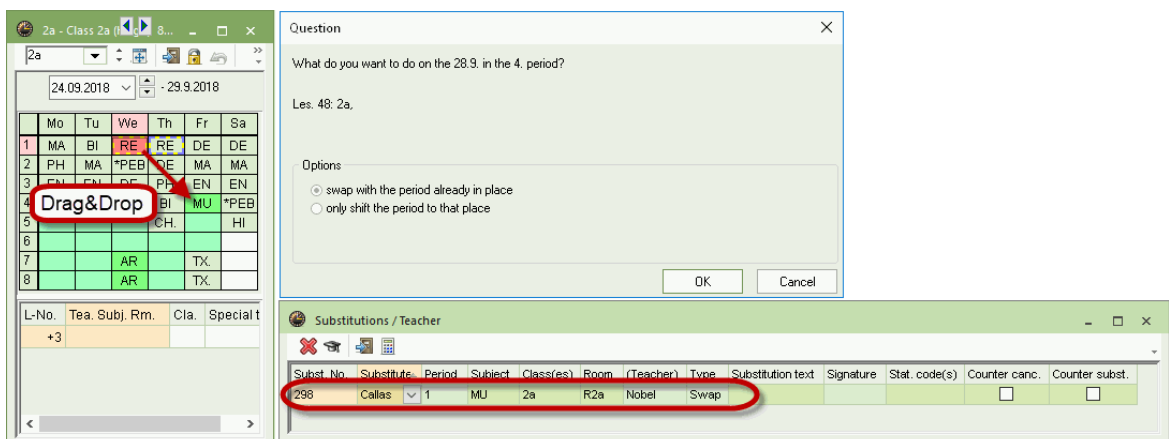
L-No.	Tea. Subj. Rm.	Cla.	Special text
75*	(Rub, PEB, (SH1))	(2b, 2a)	
	Arist, PEG, (SH2)	2b, 2a	

Arist with PE girls remains at Th-7,8. This is displayed accordingly in the [substitution window](#) as well as in the teacher and [class timetable](#) .



3.8.2 Swapping periods

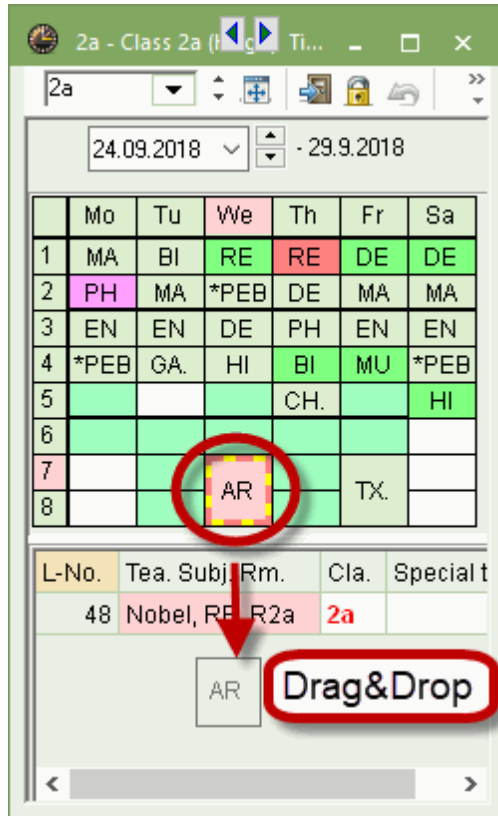
The green background in those fields of the timetable which are not empty indicates that you can perform a swap. Then you will be asked which activity should be carried out.



The swap performed will also be displayed in the substitutions window.

3.8.3 Cancelling periods

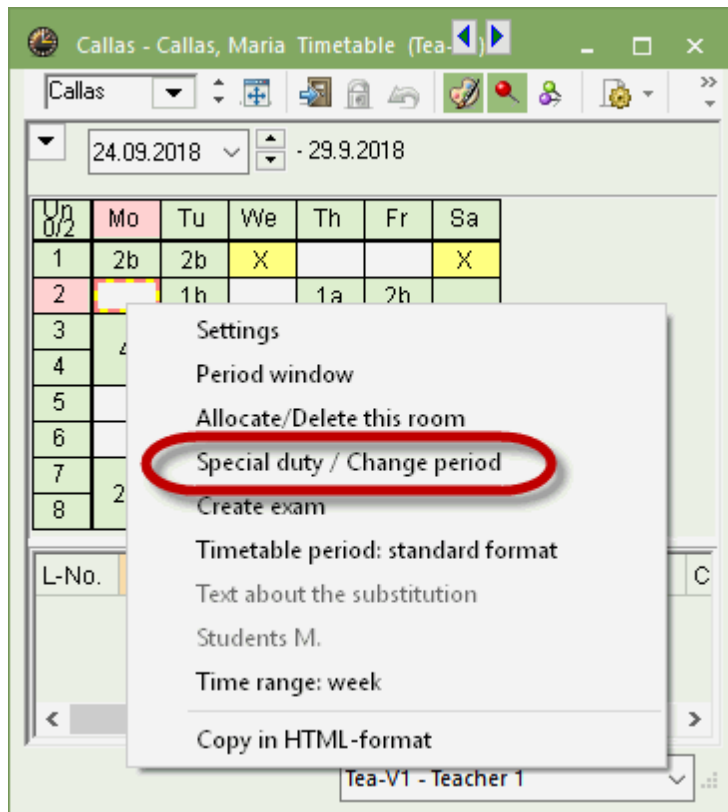
If a period is dragged into the timetable details window and "dropped" there (similar to unscheduling in the timetable mode) the period will be cancelled.



3.8.4 Special duties

A special duty is a lesson that needs to be held at short notice.

You can open a context menu by clicking on the right mouse-button and then select the 'Special duty' option.



You can now select all the elements for the special duty in a separate window.

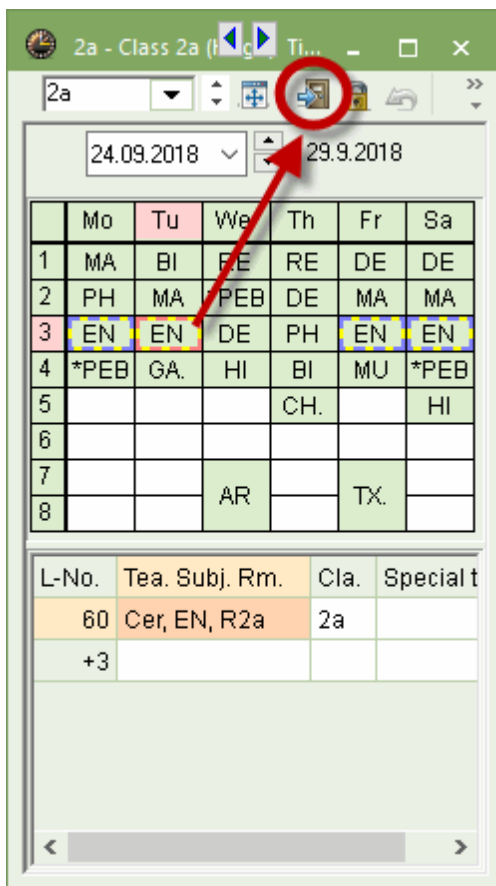
The special duty is now displayed in the timetable and in the substitutions window.



3.8.5 Room replacement - room change

If a room was blocked using the absences window (marked as absent) the uncovered [room substitutions](#) can also be processed in the timetable directly via the <Allocate/Delete this room> button.

You can also use the same button to perform any room changes and room swaps.



Please refer to chapter '[Room replacement](#)' for more details on this feature.

3.9 Scheduling dialogue

Substitutions can be processed in the [substitutions window](#) , in the timetable or in the scheduling dialogue. All functions available in the [timetable](#) can also be applied in the scheduling dialogue.

Open the scheduling dialogue via the scheduling dialogue button on the 'Cover scheduling' tab or via the context menu displayed when clicking the right mouse button

The scheduling dialogue shows the timetable of a week, either from the class or from the teacher perspective. The selection menu for classes shows the classes where uncovered substitutions still need processing.

Scheduling dialogue

Class(es) Teacher

1a Name

24.09.2018 Week-1

	1	2	3	4	5	6	7	8
24.9./Mo	Cer	Arist	Rub	Curie	Curie	-	-	-
25.9./Tu	Arist	Rub	Gauss	*Arist.		-	-	-
26.9./We	Cer	Gauss	Nobel	Callas			Ander.	Ander.
27.9./Th	Rub	Callas	Gauss	Arist	*Arist.	-	-	-
28.9./Fr	Gauss	*Arist.	Rub	Arist			Callas	Callas
29.9./Sa	Rub	Arist	Gauss	Nobel				
30.9./Su								

Editing the timetable details window

A special feature of the scheduling dialogue is that the [timetable details window](#) can be edited. This allows you to edit uncovered [substitutions](#) (including [room replacements](#)) and also to create [special duties](#).

Example:

1. Activate the respective period.
2. Enter elements in the details window.
3. The special duties period will now appear in the scheduling dialogue, in the timetable and in the substitutions window.

Scheduling dialogue

Class(es) Teacher

1a Name

24.09.2018 Week-1

	1	2	3	4	5	6	7	8
24.9./Mo	Cer	Arist	Rub	Curie	Curie	-	-	-
25.9./Tu	Arist	Rub	Gauss	*Arist.		-	-	-
26.9./We	Cer	Gauss	Nobel	Callas			Ander.	Ander.
27.9./Th	Rub	Callas	Gauss	Arist	*Arist.	-	-	-
28.9./Fr	Gauss	*Arist.	Rub	Arist			Callas	Callas
29.9./Sa	Rub	Arist	Gauss	Nobel				
30.9./Su								

L.No. Teacher Subject Class(es) Room From to Stat. code

1296 Arist ??? 1a

Scheduling dialogue

Class(es) Teacher

1a Name

24.09.2018 Week-1

	1	2	3	4	5	6	7	8
24.9./Mo	Cer	Arist	Rub	Curie	Curie	-	-	-
25.9./Tu	Arist	Rub	Gauss	*Arist.		-	-	-
26.9./We	Cer	Gauss	Nobel	Callas			Ander.	Ander.
27.9./Th	Rub	Callas	Gauss	Arist	*Arist.	-	-	-
28.9./Fr	Gauss	*Arist.	Rub	Arist			Callas	Callas
29.9./Sa	Rub	Arist	Gauss	Nobel				
30.9./Su								

L.No. Teacher Subject Class(es) Room From to Stat. code

1296 Arist ??? 1a

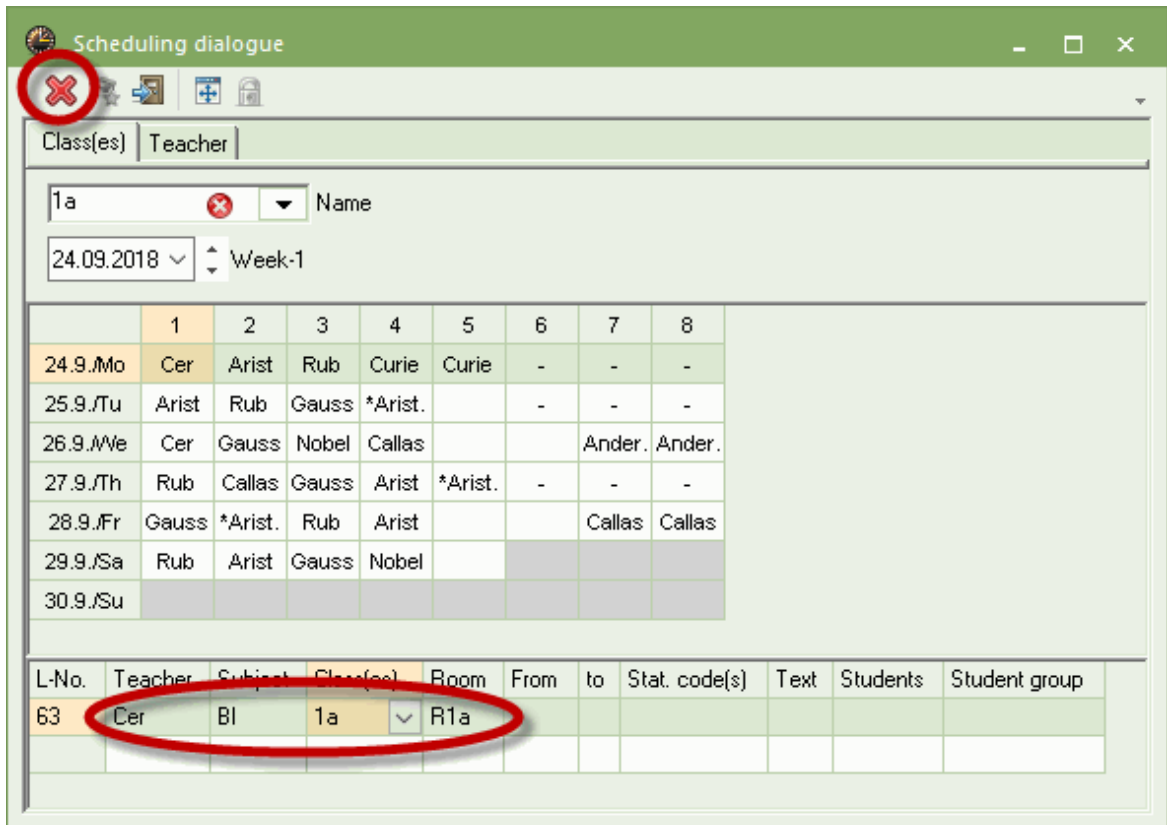
Substitutions / Teacher

Subst. No.	Substitute	Period	Subject	Class(es)	Room	(Teacher)	Type	Substituted text	Signature	Stat. code(s)	Counter canc.	Counter subst.
296	Arist	5	CH	1a	Ps1		Spec.				<input type="checkbox"/>	<input checked="" type="checkbox"/>

Cancellations in the scheduling dialogue

You can cancel a period using the cancelled button. You can reverse the cancellation by pressing the cancelled button once more.

You can cancel parts of a [coupling](#) by clicking on the coupling line and then activating the <Cancelled> button.



3.10 Printing substitutions

You can print substitution data either from the [Substitutions window](#) or from the Scheduling dialogue using the <Print> or <Print Preview> buttons.

Date

First select the day for which the list is to be created via the calendar.

You can make various print settings in the pprint selection window:

Selection

The Selection option allows you to restrict the output to specific classes or teachers.

Type of list

Use type of list to select whether the output should be made for teachers or classes. This determines whether the list should be sorted by teachers or by classes.

Page setup

The page setup option allows you to define margins and font size.

PDF

Instead of printing the list you can also generate a pdf file.

3.11 Terms

Term timetable functions are generally used if the timetable is changed during the school year (e.g. at the end of the school half-year, when one or more teachers are absent for a considerable period etc.),



Warning: Terms only with Express Cover Planning

Working with terms is only possible with the module Express Cover Planning.

With a term timetable the school year is divided into several periods of time and a timetable can be

created for each of these terms independently of each other. You could of course save each timetable in a separate file, but you would then have to accept a number of disadvantages. The term timetable offers the following advantages:

- You have a single file for the whole school year.
- Term and timetable changes can take place during the week.
- Cover planning always accesses the currently valid timetable automatically. Mistakes are impossible.

3.11.1 Opening a new Term

In principle you create your timetable at the beginning of the school year as usual. If something occurs in the course of the school year that requires a fundamental change to the timetable you can open a new term. The procedure is described below:

1. The term dialogue is accessed via the 'Multiple terms' button on the 'Start' taab. At the beginning there is only one term, which is called 'Term1' by default.
2. Click on the button <New term from 'mother' term>. A window opens where you can enter the short and the full name of the new term ('Term1' by default).
3. Enter a meaningful short and full name for the new term - in our example Period2 - and click <OK> to confirm.

The screenshot shows the 'Terms' dialog box with the following elements:

- Name:** Term1
- Buttons:** Delete, Print, OK
- Buttons (highlighted):** New term from 'mother' term
- Locked:**
- Term1:** Full name
- Fr.:** 19.09.2018
- To:** 30.06.2019
- School-days:** 244

Name	Full name	From	To	Locked	Days	Mother term
Term1	Term1	19.9.18	30.6.19	<input type="checkbox"/>	244	

New Term

- Name:** Term2
- Full name:** Term2
- Buttons:** OK, Cancel

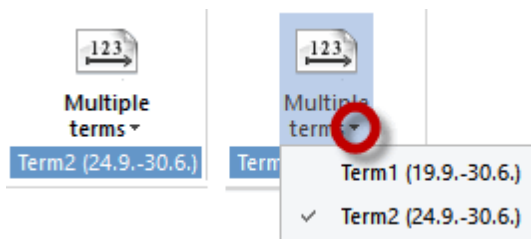
4. Now change the start (From) and end (To) dates. The length of the individual terms will then be displayed in the 'Days' column. Master data, lessons and timetable can now be modified in accordance with the new conditions. By checking the 'Locked' box, past terms can be locked regarding changes.

You can also change the name of the original term 1 (here e.g. to 'start').

5. After you confirm by clicking < OK> the terms window closes

Name	Full name	From	To	Locked	Days	Mother term
Term1	Term1	19.9.18	30.6.19	<input type="checkbox"/>	4	
Term2	Term2	24.9.18	30.6.19	<input type="checkbox"/>	240	Term1

A new combo box is displayed in the menu displaying the current term and allowing you to switch terms.



6. Now switch from the term 'we4' to the term 'start'. You will see that both terms' data are completely identical.

7. Make a change to one of the terms. For example, delete the timetable from the term 'from week 4 onwards'. Now switch to the term 'start'. You will see that the timetable for the term 'start' has not been deleted.

2a - Class 2a (Hugo) Timetable (Cla1)

Term: 19.9.2018 - 4.10.2018

	Mo	Tu	We	Th
1	MA	BI	RE	RE
2	PH	MA	*PEB.	DE
3	EN	EN	DE	PH
4	*PEB.	GA.	HI	BI
5				CH.
6				
7			AR	
8			AR	

L-No. Tea. Subj. Rm. Cla. Spe

90	New, MA, R2a	2a		
+3				

< Term1 >

2a - Class 2a (Hugo) 8002 Timetable (Cla1)

41110 Term: 1.6.2019 - 30.6.2019

1106 30/0	Mo	Tu	We	Th	Fr	Sa
1						
2						
3						
4						
5						
6						
7						
8						

CH. MU

*PEB. AR

TX. RE

GA. DE

HI. EN

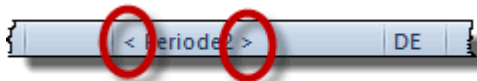
L-No. Tea. Subj. Rm. Cla. Special text

+3				
----	--	--	--	--

< Term2 > DE U

Tip: Switching terms via status bar

You can switch between terms quickly via the status bar (display status bar via "Settings | Status bar"). Simply click on one of the angled brackets enclosing the name of the current term.



3.11.2 Embedding a Term

If the timetable only changes for a certain period of time (e.g. a teacher's illness/convalescence, a school event for the majority of classes etc.) a new term can be embedded in an existing term.

Schuljahr



Such a constellation would be displayed as follows in the term window:

Terms

Name:

Locked

Full name

Fr. To School-days: 239

Name	Full name	From	To	Locked	Days	Mother term
School year	Whole school yea	19.9.16	30.6.17	<input type="checkbox"/>	6	
Ski course	Ski course	20.2.17	26.2.17	<input type="checkbox"/>	6	School year

The term "Total school year" runs from September 19 through June 30 and term 2 ("Winter sports week") runs for one week from February 20 until February 26. The timetable can now be changed just for this one week without impacting the timetable for the rest of the school year.

If more than one term exists you can choose which one should be the 'mother' for the new term. If another timetable change becomes necessary during the school year, the term that is most similar to the new term is taken as the mother term. This is generally the last valid term or the term "Total school year".

3.12 Entering holidays

In case you are using the WebUntis electronic class register with Untis Express we recommend to enter days without lessons in addition to the [holidays](#) in Untis.

Via 'Modules | Cover Planning | Calendar' you can select a date in the [calendar](#) and check the option box 'No lessons'.

Expand the additional view by clicking on the little arrow on the left and go to the 'Calendar day' tab. Now check the box 'No lessons'.

25.9.2018 Tuesday / Term1 (19.9.-30.6.)

Calendar week 39 25.09.2018

Date	Day	Abs. Teach.	Subs.	Uncovered	Abs. cla.	Release	Blocked rms.	Room repl.	Uncvrd rooms	Daily comments	Tea. clash	Room clash
24.9.	Mo	0	0	0	0	0	0	0	0	0	0	0
25.9.	Tu	0	0	0	0	0	0	0	0	0	0	0
26.9.	We	0	0	0	0	0	0	0	0	0	0	0
27.9.	Th											
28.9.	Fr	0	0	0	0	0	0	0	0	0	0	0
29.9.	Sa	0	0	0	0	0	0	0	0	0	0	0
30.9.	Su											

Daily comments (0) Calendar day

Tuesday 25.9.2018

- Regular school day
- Public holiday
- No lessons
- Only these periods free of lessons

No reason

Remarks

The selected day is not available for the cover planning and no data will be exported to WebUntis for this day.

2a - Class 2a (Hugo) Timetable

2a

24.09.2018 - 29.9.2018

U/	Mo	Tu	We	Th	Fr	Sa
1	MA	BI	RE	27.9.2018	DE	DE
2	PH	MA	*PEB		MA	MA
3	EN	EN	DE		EN	EN
4	*PEB	GA.	HI		MU	*PEB
5						HI
6						
7						
8			AR			TX.

L-No.	Tea. Subj. Rm.	Cla.	Special text
90	New, MA, R2a	2a	
+3			

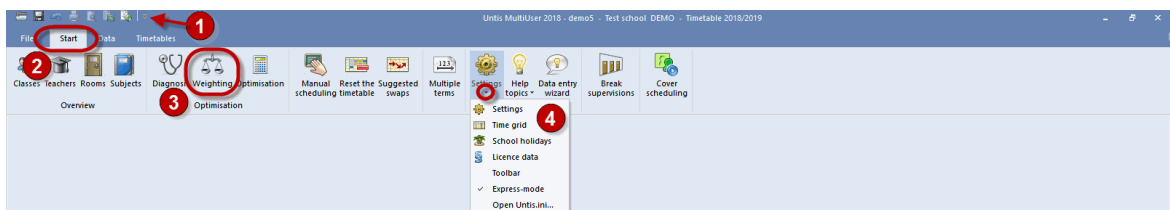
4 Settings and menu navigation

For completeness the functions of the Untis Express menu will briefly be explained in the following chapter once again.

4.1 The menu

The graphically designed user navigation contains several elements:

- quick access tool bar (1)
- tabs (2)
- buttons (3)
- and sub-menus (4)

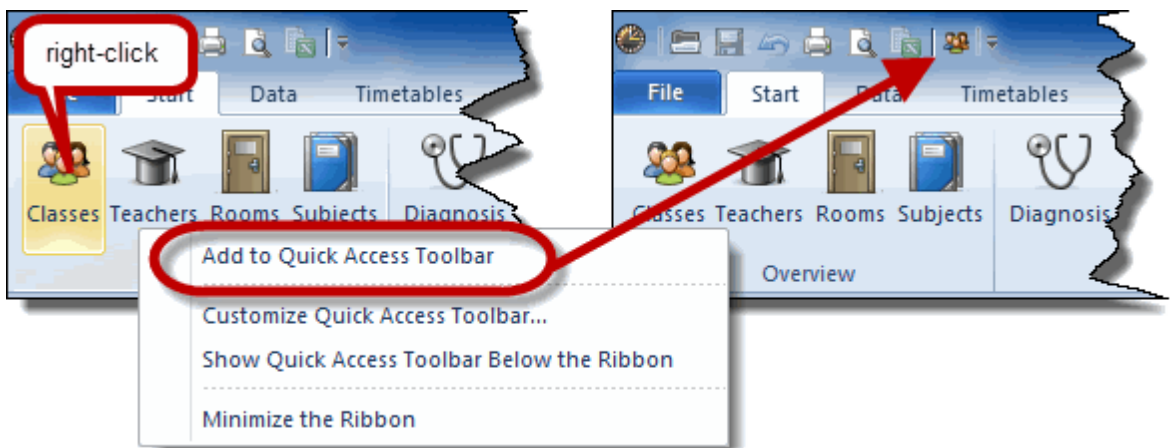


Clicking on a button opens pre-defined window arrangements containing all windows related to this topic. Clicking on an entry in a submenu, however, opens a single window.

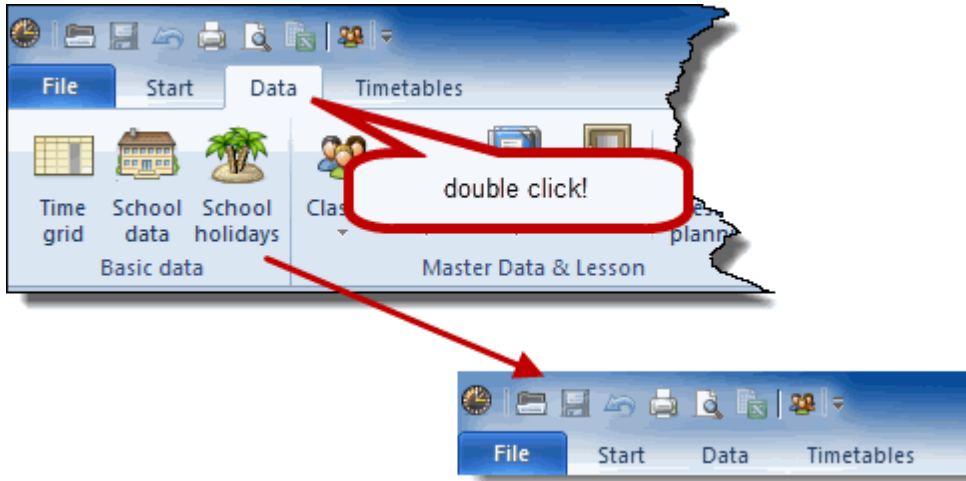
4.2 Folding the menu

Experienced users can also fold the graphic menu and use the quick access toolbar to access the most used functions.

If you want to copy a menu item to the quick access toolbar, just click the right mouse button and add it to the quick access toolbar.



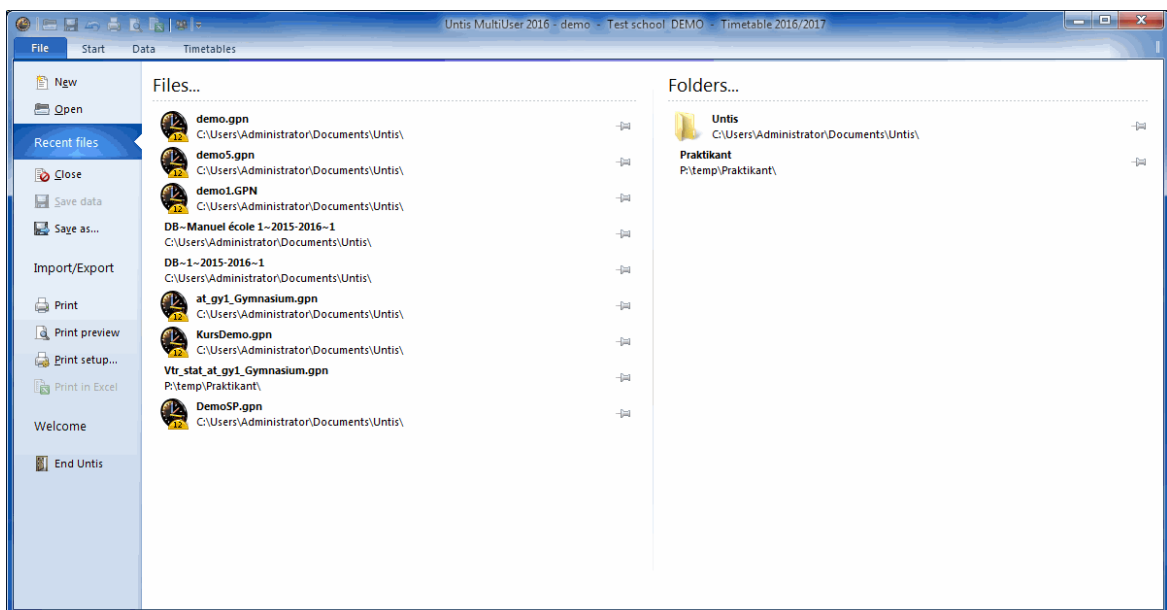
You can hide the ribbon by double-clicking on one of the tabs.



However, if you need the tab again, just click on it and it will be shown again. Double click and the ribbon will permanently be shown again.

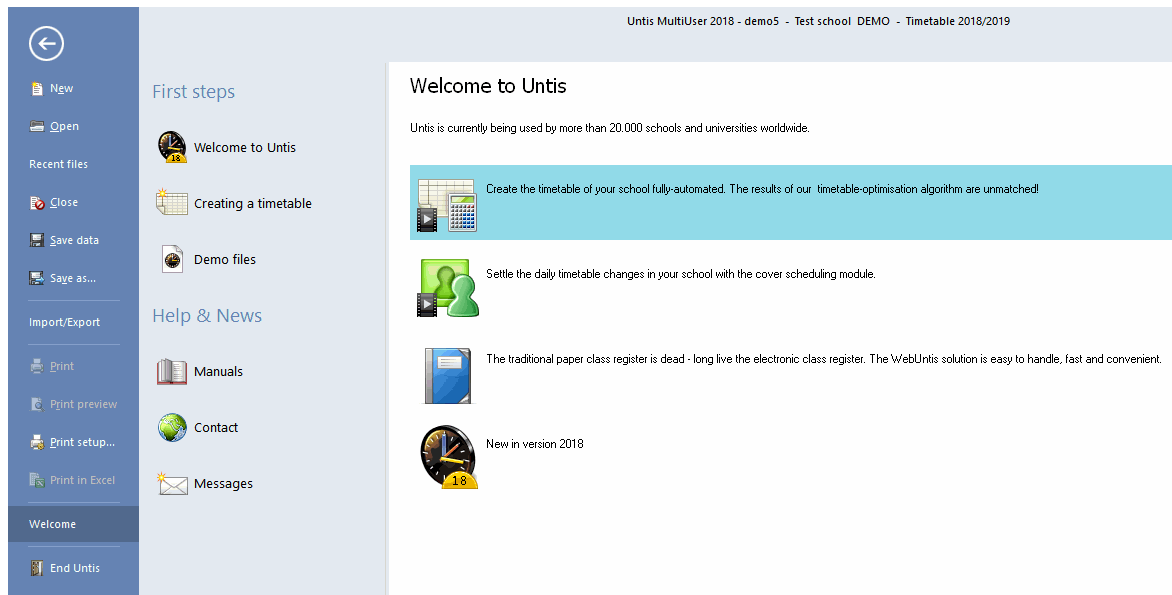
4.3 File tab

For Windows functions like 'New', 'Open', ' Save'...go to the 'File' tab.



In the list of the last opened files you can use the pin symbol next to the name to permanently fix frequently used files. The chosen file will permanently be shown in the top section and can be opened very quickly at any time.

Clicking on 'Welcome' opens the welcome screen which is opened when you use Untis for the first time.



Here you find our data entry wizard, demo files, manuals, contact details and Untis messages we send to you.

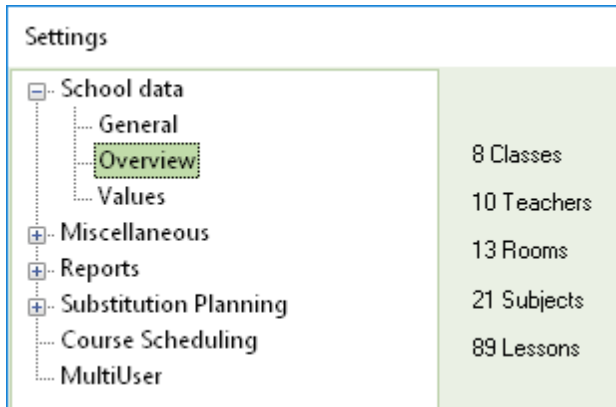
4.4 Settings

Go to the 'Start' tab, click on the <Settings> button to make all relevant settings in one central area. The most important ones are explained in the following section.

4.4.1 School date

In the section *School data*, *General* you can enter the start and the end date of the current school year, the country, the region and the type of school. Several (statistical) processes and calculation methods are based on the settings you define here.

Clicking on *Overview* you will get to a list of the number of classes, teachers, rooms, subjects and lessons at your school.

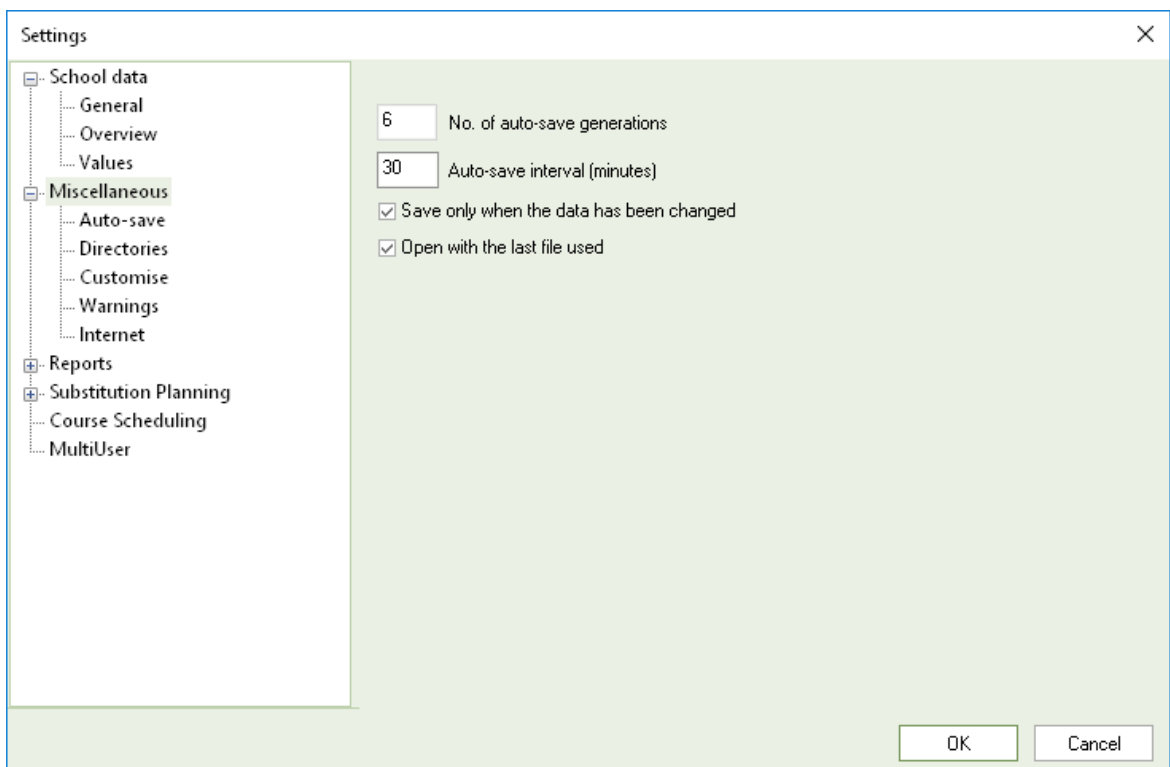


4.4.2 Miscellaneous

Clicking on the 'Miscellaneous' tab you can enter or change the following settings:

Auto-Save

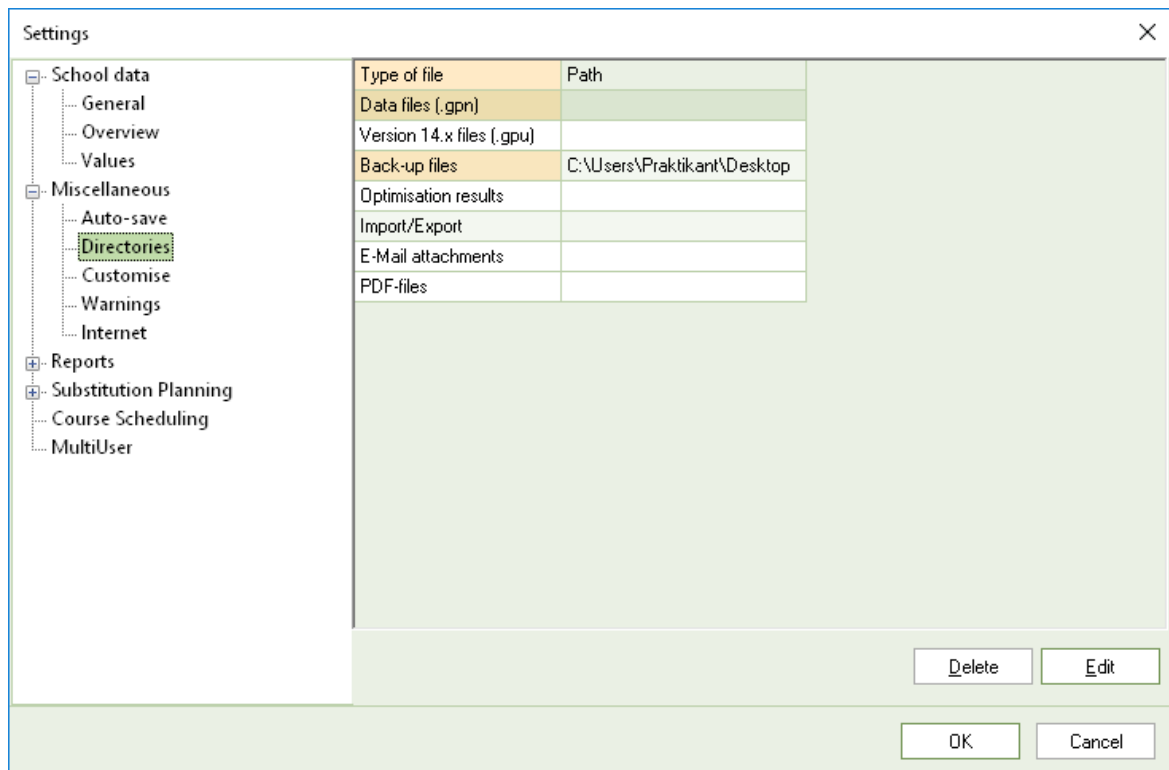
Here you can set the number of automatic save intervals and how many auto-save generations should be archived. The settings in the figure mean, for instance, that Untis saves all data every 30 minutes and should save 6 auto-save generations. These data are saved in files called Save1.gpn, Save2.gpn, Save3.gpn to Save6.gpn. The most current data are always saved in the Save1.gpn file, the relatively oldest data in the Save6.gpn file. We recommend to check the box 'Save only when the data has been changed' in order to avoid saving identical files.



When you check the box “Open with the last file used“, Untis will automatically open with the last file you used. You can avoid this by holding the >Shift> key down while the program starts.

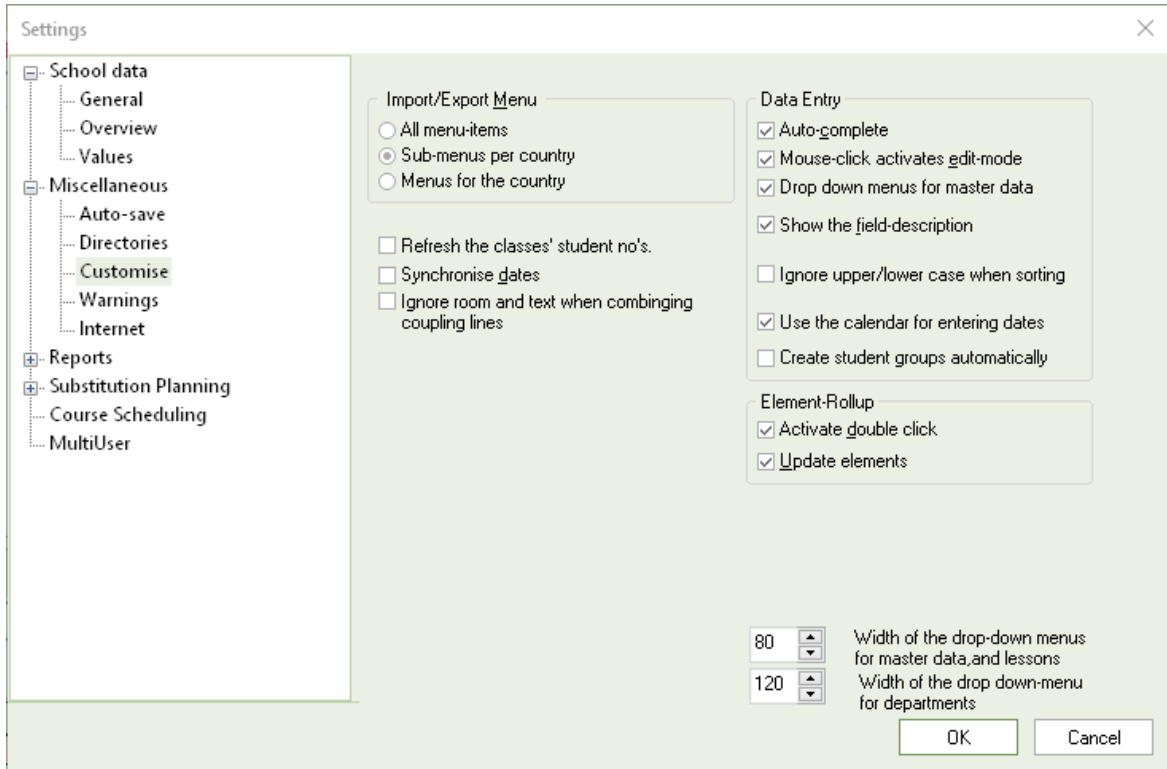
Directories

On this tab you can define different types of default paths. We recommend to create individual files for at least your back-up and optimisation files (these are the files in which all timetables of your school are saved during the optimisation process) and to enter the respective paths here.



Customise

With the different options in this chapter you can adapt Units to your own needs

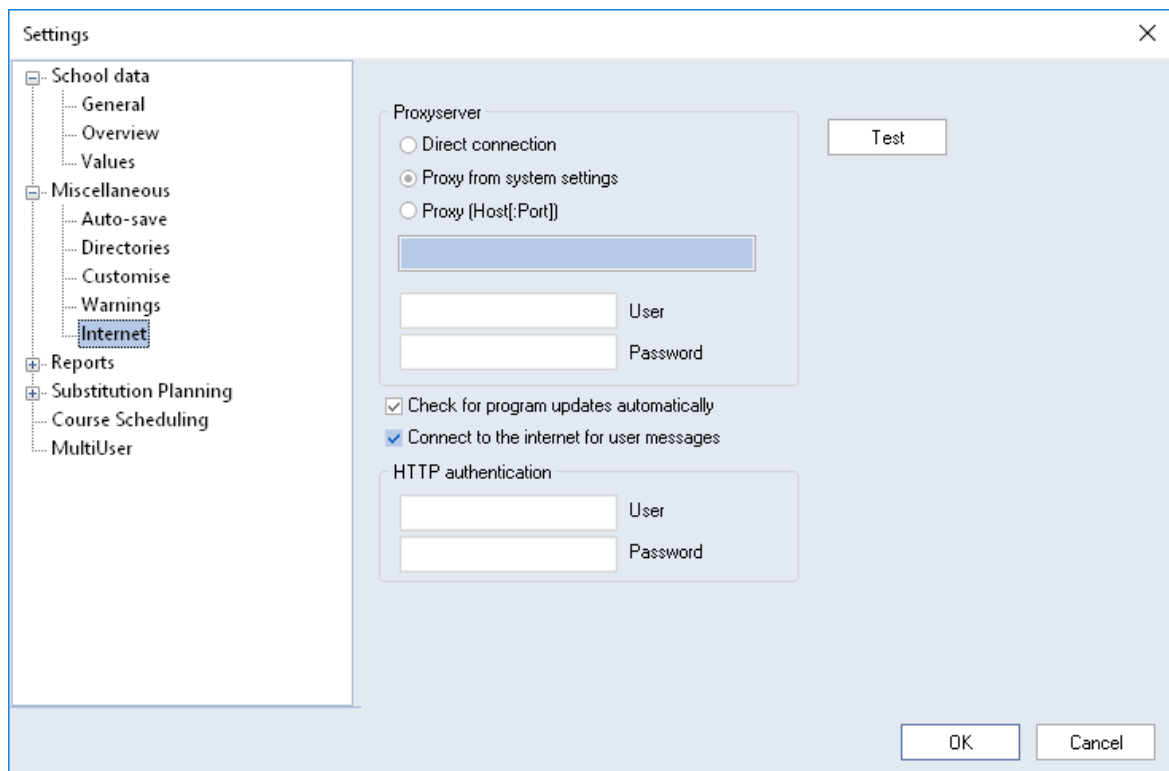


Warnings

Several warning messages can be turned off. Here you can activate and deactivate warnings.

Internet

Untis provides you with the possibility to be informed on version updates. You need to activate the option 'Automatically check the internet for programme up-dates' and you need to define how the internet should be accessed, via direct connection or via a Proxy server. If you are not sure about this setting, please ask your system administrator.



Via the <Test> button you can test, if the defined settings are correct and if Untis is connected to the Gruber&Petters web server. The following message will pop up, if Untis connected successfully.



4.4.3 Reports

The options you can define here are mainly for the headings and footers of your print outs. Please refer to chapter [Stundenplandruck](#) for further details.

Settings

- School data
 - General
 - Overview
 - Values
- Miscellaneous
- Reports
 - Headers**
- Substitution Planning
- Course Scheduling
- MultiUser

Heading

Timetable 2018/2019

Valid from: 10 October

Print date

Print current time

Print timetable version

12 Timetable version

Print page numbers

Print total page numbers

Footer

Gruber & Petters Software

Filename

OK Cancel

Index

- C -

class 21
 absence 108
 Absence reasons 103
 Activating cover scheduling mode 101
 Actual-target 27
 Adjusting timetable size 68
 Allocating rooms 59
 Alternative rooms 18
 Automatic save 8
 Automatic scheduling 41
 Automatic substitution optimisation 115
 Basic data 10
 Blocking 16
 Blocks 35
 calendar 104
 Cancellation 108, 110
 Cancelling periods 124
 Class lists 84
 Classes 21
 Classes without designated rooms 20
 Colours 28
 Core times 23
 Counter 112
 Coupled lessons 30
 Cover Planning Express 98

- D -

Daily comments tab 106
 Data entry wizard 10
 Demo files 9
 Diagnosis 50
 Double periods 34

- E -

Entering absences 116
 Entering lessons 30
 Entering licence data 6
 Entries for all master data and lessons 16

- F -

Filter 39

- H -

Header and footer 76
 Help functions 8
 HTML format 84

- I -

Ignore (i) 16
 Input with element-rollup 38
 Installation 6
 Introduction 6

- L -

Lessons 30
 Lessons view toolbar 39
 Lists 84
 Lock (X) 16
 Lock this display 64
 Lock type 64
 Locking - colours 64
 Locking periods 58
 Lunch break 12

- M -

Main subject 28
 Manual scheduling 53
 Master data 14
 Master data maintenance 15
 morning and afternoon periods 11
 Moving periods 121
 Multi-week lessons 36

- N -

Non-teaching period 24

- O -

Optimisation 49
 Other entries for lessons 36

- P -

Page setup 29
 Period flag 112

Period window 71
 Print selection 29
 printing master data 29
 Printing master data and lessons 29
 Printing substitutions 129
 Printing timetables 74
 pseudo room 20

- R -

Release 108
 Respect double periods 36
 Rings of alternative rooms 18
 Room lists 89
 Room replacement 108, 111
 Room replacement - room change 127
 room substitution 127
 Room weighting 19
 Rooms 18

- S -

Scheduling dialogue 127
 School year 10
 Serial change 17
 Shifting 108
 Simple lessons 30
 Sort order 15
 Special duties 108, 125
 Specific time requests 25
 Standard format 69
 Subject allowed more than once per day (2) 36
 Subject lists 91
 Subjects 28
 Substitute suggestion 112
 Substitution 108, 110
 substitutions window 108
 Suggestion 112
 Supervision 108, 111
 Supervision suggestion 114
 Swap 108
 Swap suggestions 60
 Swapping periods 124

- T -

Target per week 27
 Teacher lists 87
 Teacher swap 108
 Teachers 24
 Text 16

The options 22
 The timetable window 63
 Time grid 11, 102
 Time requests for classes 22
 Timetable | Overview classes 66
 timetable details window 63
 Timetable formats 65
 Timetable interaction 63
 Timetable layout 68
 timetable window 63
 Timetables 62
 Timetables in HTML format 84
 total line 30
 Type of substitution 108

- U -

Unspecified blocks 26
 Unspecified time requests 26

- V -

Value = 27
 Values 27

- W -

Weighting 41
 Weighting analysis 41
 Weighting distribution 41
 Weighting parameters 42
 Welcome screen 9
 window 39