



Math King eLearning environment

In **Math King eLearning environment** the pupils work with exercises which are illustrated both **with text and animation**. The characteristics of the exercises are variety, support and challenge.

Differentiation

The contents can be customized to individual pupil needs. The teacher can choose exercise groups that are shown for the pupil. This function can be used to **differentiate the teaching**.

The pupils have access to exercises of all the grades which allows both repetition and improvement. The numbers in each moment are changed automatically, which allows a group of pupils to work with the same exercise, but with different numbers for each pupil.

Results

For teacher it is possible to monitor pupils working on-line in an illustrative way by graphics. The teacher accesses the **results of the pupils** both individually and for the whole class through a connected data base. This offers the possibility to document the results, prior to grading and discussions on pupil progress. In the review of results, you can also see the results of single exercises.

Other

In **Math King eLearning environment** there is also:

- a **text search** for quickly search
- in each grade, there are also **tests**
- **tips for solve the question** (graphics, texts, diagrams, formulas etc)
- illustrative **animations**
- plenty of **bonus exercises**

Mathematics (grades 0-6)

Examples of exercises:

- Verbal exercises
- Number sequences (e.g. missing numbers)
- Number lines (e.g. addition and subtraction with number lines)
- Exercises in geometry (e.g. symmetry: mirror images, exercises on circle etc.)
- Concept of fraction is taught together with the concept of decimal number
- Also long division
- Negative numbers (number sequences, comparison of magnitude)
- Coordinate systems (1., 2., 3. and 4 quadrant)
- Multiplication is practiced effectively in many exercise groups

In the grades 0 and 1, the pupils can hear the **exercises spoken**.
Approximately **6000 exercises** in grades 0-6.

Mathematics (grades 6-9)

In a nutshell:

- Altogether, there are **more than 2600 exercises**.
- There are plenty of easy basic exercises, all pupils have the opportunity to experience success.
- There are also plenty of **bonus exercises**, even stronger pupils get challenges.
- Stop/Resume/Restart -buttons in the animations.
- In every course in grades 6-9, there is an exercise group with easy **basic exercises**.
- The goal of the basic exercises is to **sharpen the pupil's basic knowledge**. The same thing is repeated, but by varying the exercise type. The same thing can also be repeated in different places in the exercise group, and in slightly different forms.
- Towards the end of the exercise group, the exercises become more difficult.
- Thanks to the possibility to choose between exercises of different difficulty levels, it is easier for the teacher to **differentiate the teaching**. When the pupil can perform exercises of her/his own knowledge level, the pupil experiences more success and does not feel frustrated. Even the pupils who need to practice more, can work more independently, without support from the teacher.
- The stronger pupils can move forward faster and try their wings with new things or even perform easy (and maybe even more challenging) exercises at higher grades.