



Math King II (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 the **review of results**, you can also see the results of single exercises.
- There is a **text search** by which the exercises can be searched easily and quickly.
- Math King can be customized to individual pupil needs.

What does it mean in practice?

In every course in **Math King II** (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.

Often, the weaker pupils have difficulties especially with exercises that contain several steps. In the easy basic exercises, there are first introduction exercises which are followed by calculation exercises containing several steps. E.g. if the pupil is asked to calculate the volume of a cylinder, can she/he be asked to calculate the area of a circle in the previous exercise. The more challenging exercises are based on more simple exercises performed at the beginning of the exercise group.

In easy basic exercises, there are several answer fields for intermediate steps. At the beginning of an exercise group, the pupils have to fill in the intermediate steps but towards the end of the group, they do not have to do it anymore. After filling in the intermediate steps for a few times, the pupil learns the calculation model and the intermediate steps are not necessary anymore.

The hints in the easy basic exercises have been simplified, e.g. difficult mathematical terms have been avoided.

Differentiation

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.

Bonus exercises

In **Math King**, there are **plenty of bonus exercises**.

The exercises are more challenging and more demanding and several subareas that have been taught during the lessons are combined. The pupil needs to think more because the exercise can no longer be solved with only one solution model.

Bonus exercises can be used as repetition for tests or the teacher can ask the stronger pupils to perform them while the pupils who need more practice repeat the basic things.