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Science Kit - Riedenburger Modelle 7-01

The Science Kit Riedenburg Model is a group of experiments for science education. The experiments are individually packed in drawers to fit in a standard cabinet. Each experiment is accompanied by printed instructions.

The experiments are selected based on the Bavarian curriculum for grade 7 secondary schools and middle schools in the teaching of nature and technology. There are 19 experiments included, out of which 12 are student experiments and 7 are teacher experiments.

The devices of the teacher experiment are provided once. The number of devices for the student experiments is customized to allow 5 groups to conduct experiments at the same time. Detailed experiment instructions with didactic notes (teacher and student sections), photos of the experiment and a risk assessment are provided for all experiments. These documents are supplied in paper form, but can also be accessed digitally using a QR code.

#### Experiment Topics

- Components of air
- Atom models
- Properties of air
- Detection of carbon dioxide
- Combustion: Ignition temperature and degree of fragmentation
- Combustion considered in chemical terms
- Flight of birds
- Breathing and cardiovascular system
- Smoking damage
- Simple circuit
- Series and parallel circuit
- Alternating circuit
- Measuring voltage and current
- Node and mesh rule
- Electrical resistance
- Ohm's law
- Volta element

This article is still under development.