

Safety information on the topic of the environment

The students may conduct the experiments only under teacher supervision.

The teacher is to point out to the students that the provided materials may be used only according to the respective instructions.

Observe the following safety information as well as the applicable safety guidelines for your school and discuss them with your students.

Safety-relevant materials and apparatus must be tested for proper functioning before being handed out to the students.

Working with ink

Generally, the ink in the kit is non-toxic. If the students are not specifically allergic to the ink, skin contact is usually not a problem.

Precautions when working with fire

Obtain a commitment from the students that an adult must always be present in the room when they conduct experiments with burning candles or any form of fire. Also discuss the required conditions for the experiment environment; for example, curtains and writing materials must be removed, and a fireproof surface should always be used. A fire extinguisher or a bucket of water should always be close at hand. Discuss the measures to be taken in case of an emergency and the location of escape routes.

Working with tea warmers

Discuss with the students that the tea warmer must always be placed on a fireproof surface. The tea warmer can become extremely hot and needs several minutes to cool down after the experiment is completed. For this reason, the students should not touch it while conducting the experiment and for some time afterwards. Make sure the students know that it is not possible to tell whether most objects, materials, and substances are hot or cold simply by looking at them.

Collecting scrap paper and separating organic waste

When the students collect or separate different types of waste products, injuries may occur, such as cuts from paper or cans. Make sure that the students do not injure themselves. If necessary, they should wear work gloves, also to prevent infections (for example, tetanus). After the students collect the waste, they should wash their hands thoroughly. Probably not all students know what qualifies as organic waste, so you should explain this before they begin to separate the waste.

Working with the thermometer

A conventional thermometer must be handled with particular care. Point this out to the students before they use it. Discuss the fact that thermometers contain fluids which may be harmful to health and that a broken thermometer can easily cut someone.

The thermometer that is supplied in the Experimento kit is filled with alcohol and is therefore non-toxic.

Working with vinegar (acid)

Make sure that the vinegar does not get in the students' eyes. If this should happen, they should immediately rinse their eyes with clean water. Cold running water is usually best for rinsing the eyes.

Only "household vinegar" with an acid content of approx. 5 percent should be used in the experiment. Depending on the producer, vinegar essence can contain up to 30 percent acid and is not suitable for elementary school children. If 5 percent vinegar is not available, the teacher can make an appropriate substitute by diluting one part vinegar essence with five parts water.

Working with objects with sharp edges or points

Scissors and other sharp or pointy objects entail a certain risk of injury. Therefore, it is important for students to master how to safely handle these tools and objects. Demonstrate the correct use of the materials or prepare individual steps of the experiment for the students.