



Experiment

## How does wind form?

**You will need:**

- scissors,
- an A5 sheet of paper,
- thread (approx. 30-40 cm),
- a candle.



**Instruction**

1. Draw a spiral on the sheet of paper and then cut it out.



2. Use the scissors to pierce through the center of the spiral, pull the thread through the hole, and tie a knot so that the string does not fall out.



3. Light the candle.

4. Grab one end of the string and hold the spiral over the candle.



Be sure not to let the spiral ignite.

What did you observe?

Has the spiral started to rotate?

Why?



Experiment

## How do clouds form?

The students work in teams – they sit around four tables serving as workstations on which the experiments are carried out.

**Materials for each team:**

- a balloon,
- a glass bottle,
- two containers slightly wider than the bottle,
- cold water,
- hot water.

**Carrying out the experiment:**

1. The students put deflated balloons on the glass bottles.
2. You should pour a small amount of cold water into one of the two containers, and a small amount of boiling water into the second container for each team.



3. The students put the bottles with the balloons on top into the containers with HOT water.



Make sure that your students are safe and nobody is going to be burned.



What do you observe? What is happening to the balloons? Why?

4. Next, the students transfer the bottles to the containers with COLD water.

What do you observe? What is happening to the balloons? Why?





Experiment

How does a cloud form?

**Prepare the following items for each team:**

- a jar with a lid (jar should have an even surface),
- a match,
- ice,
- boiling water.



**Instruction**

1. Pour boiling water into the jar (in height of 2 cm).



2. Put ice on the lid.

3. Put the lid with the ice on it on top of the jar.

What did you observe?



4. Remove the lid with the ice on it for a moment and quickly throw a lighted match into the jar. Cover the jar's opening.

What can you see in the jar now?

A cloud is now forming inside the jar. After a while, you can let it out.

