

## Experiments with soil

Level – any

Subject – Clil – biology, geology, geography

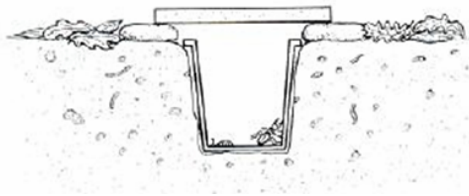
**Aids:** 3 samples of soil, water, dishes, text about soil types, microscope, magnifying glass, scale, beaker, graduated cylinder, pH paper or pH meter

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Instructions:

- Pupils prepare 3 dishes. Pour one soil sample on each dish and moisten with water.
- He tries to make a ball out of the moistened soil on the pad, then a roller, which tries to roll into a ring.
- By comparison with the text, it will tentatively determine the soil type.
- Take a soil sample and examine it with a magnifying glass or microscope.
- You can set a trap for soil animals. Draw one soil animal.



- Pupils weigh 3 soil samples of 20 g each. They place each soil sample in one beaker.
- Using a graduated cylinder, measure 50 ml of distilled water and add it to each of the beakers with the soil sample. The suspensions prepared in this way are mixed

and allowed to stand.

- After settling the soil particles, the pupils determine the pH of individual soil samples from the soil extract using a pH paper or pH meter.
  - After stabilization, they record the pH value of the soil sample in a table in the worksheet.
  - It also measures the pH of other soil samples. Using a comparison text, it determines the soil response of individual soil samples.
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