

**Cross-curriculum day- biology and chemistry**  
**Biotic diversity in the forest and at the forests' edge**  
**and the analysis of spring water in the forest**

*The 9th graders had a science day in the forest, where they learned about the different water solutions and how fertilizing in agriculture impacts the environment.*

*Here are the objectives of this day:*

The objectives of the workshop in chemistry- analysis of different samples of water (spring water in the forest, tap water from school, polluted water taken at a fertilized field)

- systematic and thorough observation, collecting and sorting data during experimental work, reading the data, generalizing the correlations and/or forming conclusions,
- safe and responsible handling with substances in correlation to health and caring for the environment (chemical safety).
- Recognizing substances with acidic and basic characteristics from the environment (meaning and usage),
- Distinguishing between acidic, basic and neutral solutions using indicators,
- Using the pH-scale for the evaluation of acidity of water solutions,
- Getting to know the impact and effects that fertilizing and using pesticides in agriculture has on the pollution of groundwater,
- Distinguishing the different sources of water in nature based on what is dissolved in it,
- Understanding the term »the hardness of water«.

Some highlights of the day:

