



## Abstract

The quality of swimming water is checked annually according to guidelines that are the same for all EU countries. What are these guidelines? How are they determined and applied? Does the water near your school meet the criteria? These are the questions that will be dealt with in this unit. Students will investigate how water quality can be determined. Biology, chemistry and mathematics all play a role in this activity. Based on the testing of water samples, students will provide some advice for the local tourist office. One exemplary lesson on a first investigation of the quality of sampled water is adapted from this module.

## Documents

- Teacher: [PDF](#) and [WORD](#)
- Student: [PDF](#) and [WORD](#)
- Original teacher: [PDF](#) and [WORD](#)
- Original student: [PDF](#) and [WORD](#)

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## ? Inquiry Learning

### Inquiry Learning Dimensions

- Exploring situations ✓
- Planning Investigations ✓
- Experimenting systematically ✓
- Interpreting and evaluating ✓
- Communicating results ✓

### Discipline

- Mathematics ✓
- Biology ✓
- Physics
- Chemistry ✓
- Engineering

### Target group

- Primary Education
- Lower Secondary Education
- Upper Secondary Education ✓

### Age range

15-18

### Duration

50 min.

## World of Work ?

Becoming a(n)...  
**Water  
Quality Technician**



### World of Work Dimensions

#### Context

Determining the quality of (swimming) water according to EU guidelines.

#### Role

Students take the role of a laboratory assistant and are asked to investigate a water sample.

#### Activity

Students carry out investigations to determine the compounds of their water sample, and determine the quality.

#### Product

Students are to provide a report on the quality of their water sample. They discuss relevant criteria.