



Abstract

The aim of this activity is to let students investigate about rust through experiments and theoretical studies. The extent of the investigation and the level of expectation can be adjusted to the student age group and ability. Students are to design and carry out experiments to investigate the phenomenon of rust.

Documents

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

? Inquiry Learning

Inquiry Learning Dimensions

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

World of Work ?

Becoming a(n)... Car industry



World of Work Dimensions

Context

The workplace context can be chosen from professional situations where it is particularly important to prevent conditions that would cause corrosion of material like iron, for example the car industry.

Role

Students adopt the role of advisors who find out about best conditions for storing and using iron parts to prevent corrosion.

Activity

Students conduct hands-on experiments to investigate the phenomenon of corrosion of iron. They plan the investigation and carry out the controlled experiments for example on the influence of temperature, humidity etc.

Product

Students present an advice (for example a flyer) about the conditions in a workplace to avoid corrosion of materials.

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Discipline

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

Target group

- Primary Education
- Lower Secondary Education
- Upper Secondary Education

Age range

11-18

Duration

100 min.