

Lesson insert

Overview

An activity using myworldofwork.co.uk to link the study of Chemistry and the topic of reactions of metals to possible careers.

Objectives

As part of a wider lesson, this lesson insert intends to:

- Encourage pupils to research careers which require scientific skills
- Highlight the importance of workplace health and safety in science careers
- Encourage pupils to consider the types of questions that might be asked at an interviews for a science career

My World of Work activity (20mins)

- Arrange pupils in groups of two or three
- Go to myworldofwork.co.uk
- Go to [my career options](#)
- Optional: Show the two video clips
- Ask the groups to choose a job card from the pack
- Ask groups to review information from the job profiles and videos and list the key skills required to do these jobs
- Compile a list of common skills on the board or flipchart

Connect the learning (in the wider lesson)

- Note: pupils should have experimented with metals and acids to form a reactivity series and investigated how acid rain in the environment could affect metal structures such as bridges
- Ask each group to think of skills they have used when carrying out experiments on acids and metals which would be useful in these jobs

Review and reflect (5mins)

- Discuss the questions they think could be asked in an interview for any one of these jobs
- Homework: Pupils should prepare a short presentation on their experiments. This should include:
 - How they demonstrated skills in designing experiments
 - What health and safety rules were adhered to
 - Which metal they would recommend for new bridges being built in the local area

Science

Chemistry

Reactions of metals

Resources

- Computers or tablets with internet access
- Projector for showing videos (optional)
- Class experiment results
- Paper or post-its to complete skills task

My World of Work links

Job profiles

[Biochemist](#)
[Chemist](#)
[Chemical engineer](#)
[Chemical engineering technician](#)
[Laboratory technician](#)
[Materials technician](#)

Videos

[Laboratory technician - Mohammed](#)
[Senior scientist - Muhammed](#)

Modern Apprenticeships

[Process Manufacturing](#)

Curriculum links

Suitable for S1 or S2 pupils studying:

Chemistry - BGE

Experiences and outcomes

SCN 3-18a: Having taken part in practical activities to compare the properties of acids and bases, I have demonstrated ways of measuring and adjusting pH and can describe the significance of pH in everyday life.

SCN3-19b: I have helped to design and carry out practical activities to develop my understanding of chemical reactions involving the Earth's materials. I can explain how we apply knowledge of these reactions in practical ways.

Career Education Standard (3-18)

Supports entitlements set out in the [Career Education Standard](#) for young people to:

- Experience a curriculum through which they learn about the world of work and job possibilities and which makes clear the **strengths** and **skills** needed to take advantage of these opportunities
- Know where to find information and access support making effective use of online sources such as [My World of Work](#)
- Develop [Career Management Skills](#) as an integral part of their curriculum