

Lesson insert

Overview

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

Objectives

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

- Encourage pupils to research careers involving skills in chemical analysis
- Show how chemical analysis is used in the food science industry
- Highlight the importance of chemical analysis in our everyday lives

My World of Work activity (20mins)

- Arrange pupils groups of two or three
- Go to myworldofwork.co.uk
- Ask pupils to complete the job research sheet

Connect the learning (in the wider lesson)

- Groups should share with the class one key point from their research of uses of chemical analysis in food science
- Note: Pupils should have carried out chemical analysis techniques in the classroom including titrations and chromatography

Review and reflect (5mins)

- Encourage pupils to research possible university and college courses involving chemical analysis
- Homework: Ask the class to use this lesson as part of their overall research on careers related to their school subject

Science

Chemistry

Chemical analysis

Resources

- Computers or tablets with internet access
- Job research sheet

My World of Work links

Job profiles

[Chemical engineer](#)

[Chemist](#)

[Food scientist or food technologist](#)

[Forensic scientist](#)

[Pharmacologist](#)

[Quality control technician](#)

[Technical brewer](#)

Industries

[Chemical sciences](#)

Curriculum Links

Suitable for S5 or S6 pupils studying:

Chemistry - Higher

Units: [Chemistry in society](#)
[Nature's chemistry](#)

Topics: [Chemical analysis](#)
[Chemistry of cooking](#)
[Oxidation of food](#)

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



Job research

Careers linked to Food science

Instructions

1. Log on to a computer and open up the web browser.
2. Go to www.myworldofwork.co.uk
3. In the search bar at the top right hand corner of the page type: **Food scientist**.
4. In the search results click on: **Food scientist or food technologist**.
5. In the purple bar in the middle of the screen, click on: **More info**
6. In the section **explore more information about this kind of job** click on: **Love Food Love Science - About careers in food science from Institute of Food Science and Technology**
7. Scroll down and click on **careers within the food industry**

Tasks

- Read the career profiles of professionals within the food science industry.
 - Discuss with your partner what each job would use chemical analysis for.
 - Choose one main point from your discussion to feed back to the rest of the class.
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