

Lesson insert

Overview

An activity using myworldofwork.co.uk to link the study of Physics and the topic of radiation to possible careers.

Objectives

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

- Encourage pupils to explore the range of careers related to the study of radiation
- Highlight the transferable skills needed for different careers
- Make a link between the transferable skills pupils are currently developing in Physics with skills needed in the world of work

My World of Work activity (20mins)

- Arrange pupils in groups of two or three
- Go to myworldofwork.co.uk
- Go to [my career options](#)
- Click on the tab 'I have a career in mind'
- Ask the groups to choose two job cards from the pack
- Ask them to complete the job comparison sheet to highlight the similarities and differences between the two chosen jobs

Connect the learning (in the wider lesson)

- Discuss as a class the range of jobs that involve using radiation
- Ask if any pupils have friends or family members that work with radiation
- Discuss the health and safety aspects of working with radiation in the workplace

Review and reflect (5mins)

- Ask pupils which of the jobs they have researched appeals to them most and the reasons why

Science

Physics

Radiation

Resources

- Computers or tablets with internet access
- Job cards
- Job comparison sheet

My World of Work links

Job profiles

[Astronomer](#)
[Clinical engineer](#)
[Doctor - GP](#)
[Doctor - Hospital](#)
[Laboratory technician](#)
[Medical physicist](#)
[Nuclear engineer](#)
[Radiographer](#)
[Modern Apprenticeship - Engineering](#)

Videos

[Adrian - Radiotherapy physicist](#)

Curriculum links

Suitable for S1 to S3 pupils studying:

Physics - BGE

Experiences and outcomes

SCN 3-11b: By exploring radiations beyond the visible, I can describe a selected application, discussing the advantages and limitations.

SCN 4-11b: By carrying out a comparison of the properties of parts of the electromagnetic spectrum beyond the visible, I can explain the use of radiation and discuss how this has impacted upon society and our quality of life.

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 cards

Astronomer	Clinical engineer
Doctor - GP	Doctor - Hospital
Laboratory technician	Medical physicist
Nuclear engineer	Radiographer



