

Lesson insert

Overview

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

Objectives

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

- Encourage pupils to explore a range of careers related to the study of electricity
- 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 three or four
- 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 a job card from the pack
- Ask them to complete the job research sheet
- Each group should present back to the class one key point about the job(s) they have researched

Connect the learning (in the wider lesson)

- Discuss how skills learned in the science classroom are transferable to the world of work
- Ask pupils to think about how a knowledge of current, voltage and resistance could lead to different jobs after school

Review and reflect (5mins)

- Ask pupils to reflect on the jobs covered and if they may be interested in following one of these careers
- Ask pupils to think about the skills discussed. Which skills have they used during this lesson?

Science

Physics

Electricity

Resources

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

My World of Work links

Job profiles

[Electrician](#)
[Electricity distribution worker](#)
[Electrical engineer](#)
[Electrical engineering technician](#)
[Electronics engineer](#)
[Electronics engineering technician](#)
[Energy engineer](#)
[Satellite systems technician](#)
[Smart meter installer](#)
[Modern Apprenticeship - Electrical installation](#)

Videos

[Electrician – Connor or Amy](#)
[Electronics Engineer](#)
[Electrical Engineering Technician](#)
[Electronics Engineering Technician](#)

Curriculum links

Suitable for S1 to S3 pupils studying:

Physics - BGE

Experiences and outcomes

SCN 3-09a: Having measured the current and voltage in series and parallel circuits, I can design a circuit to show the advantages of parallel circuits in an everyday application.

SCN 4-09a: Through investigation, I understand the relationship between current, voltage and resistance. I can apply this knowledge to solve practical problems.

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

Electrician	Electricity distribution worker
Electrical engineer	Electrical engineering technician
Electronics engineer	Electronics engineering technician
Energy engineer	Satellite systems engineer
Smart meter installer	Modern Apprenticeship Electrical installation





Job research

**Careers linked to:
Science**

Choose a job card

Log in to the computer and go to myworldofwork.co.uk

Go to [my career options](#) to find out about the job on your card and answer the following:

What is the job title?	
What are the main duties of this job?	
What are the skills required?	
Where have you used these skills in science classes?	
What else have you learned in your school subject that might be useful in this job?	
What key point about this job do you want to share with the rest of the class?	