



The Science behind the germs

Lesson plan

Aim

Discover why it’s important to wash your hands and how soap kills germs through a fun experiment. This will link back to careers in science and give the young people the opportunity to explore job profiles on My World of Work.

Mapping

CES ‘I Can’ Statements	CMS Themes
<ul style="list-style-type: none"> ★ I can discuss the relevance of skills to the wider world and make connections between skills and the world of work ★ I can demonstrate and apply the skills I have learnt across the curriculum in relation to the world of work 	<ul style="list-style-type: none"> ★ Horizons

Learning Outcomes

Young people will:

- ★ Learn about soap and germs
- ★ Carry out an experiment to show how soap and germs interact
- ★ Discover the “germiest” places in the household

Activity on next page...



Instructions

Before you start

- ★ You will need access to a laptop or tablet and access to the internet to watch the videos and explore the job profiles
- ★ Access to The Science Behind Germs Worksheet - this can be viewed on a screen or printed off
- ★ You will need the following items to carry out the experiment:
 - A bowl or a cup
 - Water
 - Pepper
 - Soap or washing up liquid
 - Oil

An adult should oversee the experiment.

Follow-up

The activity looks at roles in microbiology, healthcare and medicine:

[Microbiologist](#) (1), [Pharmacist](#) (2), [Nurse](#) (3), [Health Promotion Specialist](#) (4)

They can find out about related apprenticeships on [Apprenticeships.scot](#) (5)

Foundation Apprenticeships – [Scientific Technologies](#) (6),
[Social Services and Healthcare](#) (7)

Modern Apprenticeships – [Life Sciences](#) (8), [Healthcare Support Worker](#) (9),
[Pharmacy Services](#) (10)

Website references

1. Microbiologist <https://bit.ly/3dHWy81>
2. Pharmacist <https://bit.ly/30q3djr>
3. Nurse <https://bit.ly/2MD56kv>
4. Health Promotion Specialist <https://bit.ly/3cFcQwV>
5. Apprenticeships.scot www.apprenticeships.scot
6. Scientific Technologies Foundation Apprenticeship <https://bit.ly/2Ugrswv>
7. Social Services and Healthcare Foundation Apprenticeship <https://bit.ly/2XlyD2H>
8. Life Sciences Modern Apprenticeship <https://bit.ly/3cJ3yQo>
9. Healthcare Support Worker Modern Apprenticeship <https://bit.ly/379uA2t>
10. Pharmacy Services Modern Apprenticeship <https://bit.ly/37aWIHL>