



Colour Science Lesson Plan

Aim

To help young people learn about colour theory, the scientific processes behind some experiments and the applications of these in the 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 capillary action using colour to demonstrate visually
- ★ Build a DIY lava lamp and explore how liquids of different densities interact.

Activity on next page...



Instructions

Before you start

Print off the Colour Science worksheet or have it on a screen

To do the experiment, you will need:

- glasses of equal height
- water
- food colouring
- paper towels/kitchen roll
- white flowers
- Vases/containers
- clock
- pencil and paper
- a clear plastic bottle
- vegetable, mineral or baby oil
- Alka-Seltzer Tablets
- flashlight or lamp

An adult should oversee the experiments.

Follow-up

There are lots of related job profiles on My World of Work that the young person could find out more about:

[Botanist](#) (1), [Biologist](#) (2), [Biomedical Scientist](#) (3), [Chemist](#) (4), [Graphic Designer](#) (5)

They can find out about related apprenticeships on [Apprenticeships.scot](#) (6)

Foundation Apprenticeships – [Scientific technologies](#) (7), [Creative and Digital Media](#) (8)

Modern Apprenticeships – [Life Sciences](#) (9), [Creative and Digital Media](#) (10), [Horticulture](#) (11)

Website references

1. Botanist – <https://bit.ly/2Y2xTnT>
2. Biologist – <https://bit.ly/2XXQDVC>
3. Biomedical Scientist – <https://bit.ly/2zTzDld>
4. Chemist – <https://bit.ly/2Ub2L4q>
5. Graphic Designer – <https://bit.ly/3dAjN3z>
6. Apprenticeship.scot – <http://www.apprenticeships.scot>
7. Scientific Technology Foundation Apprenticeship – <https://bit.ly/30dB9Qa>
8. Creative and Digital Media Foundation Apprenticeship – <https://bit.ly/2zXKfG2>
9. Life Sciences Modern Apprenticeship – <https://bit.ly/2XyLnIU>
10. Creative and Digital Media Modern Apprenticeship – <https://bit.ly/3h5qa17>
11. Horticulture Modern Apprenticeship – <https://bit.ly/30dpT6e>