



Biomimicry – Inspiration from Nature Lesson plan

Aim

To help young people to learn about what biomimicry is, taking inspiration from nature to solve everyday issues, and how scientists and engineers have applied it to everyday life.

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, investigate and research innovation in biomimicry and what could be achieved in the future
- ★ understand different job roles that use the idea of biomimicry
- ★ investigate and develop a biomimicry design or model using inspiration from nature

Activity on next page...



Instructions

Before you start

- ★ Print the 'Biomimicry' worksheet or ask someone to print it for you
- ★ If you can't print it, take a sheet of paper and use this to do the activity on.

Follow-up

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

[Aerospace engineer](#) (1), [Software developer](#) (2), [Satellite systems technician](#) (3),
[Materials technician](#) (4)

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

Foundation Apprenticeships – [Engineering](#) (6), [Software Development](#) (7),
[Hardware and System Support](#) (8)

Modern Apprenticeships – [Information Security](#) (9), [Engineering](#) (10),
[IT and Telecommunications](#) (11)

Graduate Apprenticeships – [IT: Software Development](#) (12),
[Engineering: Design and Manufacture](#) (13),
[Engineering: Instrumentation, Measurement and Control](#) (14), [Data Science](#) (15)

Website references

1. Aerospace Engineer – <https://bit.ly/2WO5Dpu>
2. Software Developer – <https://bit.ly/2XdMKLJ>
3. Satellite Systems Technician – <https://bit.ly/3g61q8h>
4. Materials Technician – <https://bit.ly/2TqiYCB>
5. Apprenticeships.scot – <https://www.apprenticeships.scot/>
6. Engineering – <https://bit.ly/3bO68nY>
7. Software Development – <https://bit.ly/3bMzCCO>
8. Hardware and System Support – <https://bit.ly/3g8wVPi>
9. Information Security – <https://bit.ly/3e5JWHg>
10. Engineering – <https://bit.ly/2TkzELt>
11. IT and Telecommunications – <https://bit.ly/2AGdL2N>
12. IT: Software Development – <https://bit.ly/36ggsUq>
13. Engineering: Design and Manufacture – <https://bit.ly/2WNR6za>
14. Engineering: Instrumentation, Measurement and Control – <https://bit.ly/2LN2DU0>
15. Data Science – <https://bit.ly/2yjl53N>