

Teacher Guide

Destination Space



Levels : Second & Third

Duration: 60min

Maximum Number of Pupils: 30

What to Expect

The aim of the workshop is to engage, inspire audience across the UK with the amazing stories and innovative science and engineering of the UK's world-leading space sector, especially focussing on UK spaceports, satellite applications and space exploration.

The workshop will include information about the new UK spaceports and launchers, innovative satellite applications, and areas of UK space exploration including the 50th anniversary of the first moon landing, the James Webb Space Telescope and ExoMars.

What is Covered

- UK Spaceports
- Innovative satellite applications
- Areas of UK Space Explorations
- James Webb Space Telescopes
- ExoMars

Curriculum for Excellence links

We have identified the Curriculum for Excellence experiences and outcomes to which this workshop can most significantly contribute (please see the next page):

Second Level
SCN 2-04a

By considering examples where energy is conserved, I can identify the energy source, how it is transferred and ways of reducing wasted energy

Second Level
SCN 2-06a

By observing and researching features of our solar system, I can use simple models to communicate my understanding of size, scale, time and relative motion within it.

Second Level
SCN 2-20b

I can report and comment on current scientific news items to develop my knowledge and understanding of topical science.

Third Level
SCN 3-04a

I can use my knowledge of the different ways in which heat is transferred between hot and cold objects and the thermal conductivity of materials to improve energy efficiency in buildings or other systems.

Third Level
SCN 3-06a

By using my knowledge of our solar system and the basic needs of living things, I can produce a reasoned argument on the likelihood of life existing elsewhere in the universe.

Third Level
SCN 3-08a

I have collaborated in investigations into the effects of gravity on objects and I can predict what might happen to their weight in different situations on Earth and in space.

Third Level
SCN 3-11b

By exploring radiations beyond the visible, I can describe a selected application, discussing the advantages and limitations.

**Third Level
SCN 3-12b**

I have explored the role of technology in monitoring health and improving the quality of life.

**Third Level
SCN 3-20a**

I have collaborated with others to find and present information on how scientists from Scotland and beyond have contributed to innovative research and development.