

Earth and Universe

Learning objectives

- Investigate how we know that the Earth is a sphere
- Develop a basic knowledge of the construction of the inner planets and the gas giants
- Understand how we moved from a geocentric to a heliocentric model of the Solar System
- Develop an understanding of how the Solar System was formed
- Discover how to build a telescope

Workshop content - students will:

- Investigate the Earth and what we know about it
- Allocate roles (researcher, scriptwriter, speaker, demonstrator)
- Choose an investigation suited to their type of learning eg a drama, creative use of textiles, play dough, animation, building a telescope etc
- Present their findings to the rest of the class

National Curriculum links

Sc1 Scientific enquiry

Sc4 Physical processes

3) Light and sound

- c. how light is reflected at plane surfaces
- d. how light is refracted at the boundary between two different materials

4) The Earth and beyond

- a. how the movement of the Earth causes the apparent daily and annual movement of the Sun and other stars
- b. the relative positions of the Earth, Sun and planets in the solar system
- c. about the movements of planets around the Sun and to relate these to gravitational forces
- e. about the use of artificial satellites and probes to observe the Earth and to explore the solar system

Picture gallery

