

Y5 Learning Challenge: Earth and Space

Key Text: Clockwork

Prime question: What else is out there?

Subsidiary questions:

1. What makes up our solar system?
2. What are the similarities and differences between the planets?
3. How do the planets move?
4. How have views about space evolved over time?
5. What was the 'Space Race'?
6. What was the Soviet Union? (Space Race connection)
7. How has Eastern Europe changed over time? (Space Race connection)

Science

- Describe the movement of the Earth, and other planets, relative to the Sun in the solar system.
- Describe the movement of the Moon relative to the Earth.
- Describe the Sun, Earth and Moon as approximately spherical bodies.
- Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.

Geography

Pupils should be taught to:

- Use globes and satellite images of the Earth from Space to locate countries and describe features studies
- I can compare a region in the United Kingdom with a region in another continent, understanding geographical similarities and differences.
- I can use atlases to find out about other places.

History

- A significant turning point in British history (space travel)

Art

Pupils should be taught to:

- About great artists and designers in history (Starry Night, Van Gogh)

DT (Design and make a simple model to show the rotation of the Sun, Earth and Moon)

Pupils should be taught to:

- Select from and use a wider range of tools and equipment to perform practical tasks (e.g. cutting, shaping, joining and finishing)
- Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design
- Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work

Music

Pupils should be taught to:

- Appreciate and understand a wide range of high-quality live and recorded music drawn from different traditions and from great composers and musicians (the Planets Suite, Gustav Holst)

Computing

- Use sequence, selection, and repetitions in programs; work with variables and various forms of input and output.
- Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.
- Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals