Earth and Space- Year 5- Kapow unit-Forces and space: Earth and space

Previous learning

Key Vocabulary for Year 5

Earth	**constellation**
Sun	**Planets**
Moon	
Axis	
Rotation	
Day	
Night	
Phases of the moon	
Star	

Previous vocabulary

Useful links

https://www.hamilton-trust.org.uk/science/year-5-science/earth-and-space-space-presenters/

https://www.stem.org.uk/resources/community/collection/12347/year-5-earth-and-space

https://www.bbc.co.uk/bitesize/articles/zsvtqfr

Key scientists you could look at…

Isaac Newton

Scientific skills

Working scientifically	Questioning and enquiry	Observing and measuring	Investigating	Recording	Grouping and classifying
Use practical scientific methods, processes and skills, covered in a variety of ways throughout the year	Begin to plan different types of scientific enquiries to answer questions, including recognising and controlling variables when necessary.	Begin to take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings where appropriate. Begin to identify patterns that might be found in the natural environment. Begin to make own decisions about what observations, measurements, and equipment to use. Begin to interpret data. Begin to make accurate and precise measurements.	Begin to test results to make predictions to set up further comparative and fair tests. Begin to recognise when and how to set up comparative and fair tests and explain which variables need to be controlled and why. Begin to suggest improvements to the method and give reasons.	Begin to record data and results of increasing complexity using scientific diagrams and tables, classification keys, tables and bar and line graphs. Begin to report and present findings from enquiries. Begin to decide how to record data from a choice of familiar approaches. Begin to choose how best to present data	Begin to us and develop keys and other information to record, identify, classify and describe living things and materials.

Experiment and activity ideas

Create a model of the solar system	Create a model of the phases of the moon	Create a human representation of the movement of the Earth and moon	Use models and diagrams to show an understanding of day and night	Design and make planets, label and explain

Knowledge- objectives

Describe the movement of the Earth, and the 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

Resources in school

Planets and solar system poster