



Shadsworth Junior School



Curriculum

Year 5 Scheme of Work

Term: Spring 1

Topic: Science - Space

Key Skills and Knowledge:

Earth and Space

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

Working Scientifically

Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary. Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate. Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs. Report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.

Reading and Writing Opportunities (Long and Short Activities)

Creative Ideas and Hooks

Story writing – children win a prize (a trip to the moon)

Learning Challenge Question – “Will Liam Digby be the next astronaut to land on the moon?”

Information text – earth and the solar system.

Create a 3D model of the earth, sun and moon.

Presentation about a planet.

Make a mnemonic to help remember the order of the planets in the solar system

WOW – Explore sky view app on i-pads, solar system videos.

Links to PSHCE, Equality and British Values Work

Men and Women in space (Time Peake, Neil Armstrong, Sally Ride, Valentina Tereshkova)

Diversity of astronauts

Pride in achievement.

International Space Station (ISS)

Key Vocabulary:

Resources Available / Visits/Visitors

Useful Websites:

Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto (dwarf planet) eclipse, solar, lunar, moon, astronaut

Text – Cosmic, “It’s One giant leap for boy-kind” by Frank Cottrell Boyce. (class books and PowerPoint)

3D solar system model and books

Book mobile planetarium to visit School

<https://www.youtube.com?v=wz01pTv uMa0>

<https://www.youtube.com/watch?v=G 6A72ufn3l4>

Previous Knowledge: Can you name any planets? Why do shadows change shape and length?