



Year group: Five

Term: Autumn 1

Project title: The past and future of human space travel

Project and Exhibition: Film a simulated moon landing

Project synopsis:

We are going to research the breadth and depth of the explored and unexplored solar system to improve our situational awareness of Earth within Space.

Communicating learning:

A peer-to-peer presentation of different aspects of the solar system.

Project outcomes:

Pupils will present the completion of a scientific investigation and present evidence to support the movement of the Earth in relation to other elements of the solar system. Pupils will be able to identify the size and shape of the moon in relation to the earth and explain how night and day are created and how planets are linked to stars.

Curriculum opportunities:

Science

Planning

- Pupils will plan and carry out a scientific enquiry to answer questions including recognising and controlling variables where necessary.
- Pupils can make predictions with reasons.

Obtaining and Presenting Evidence.

- Students can report and present findings from enquiries through written application and conclusion.
- Students will use graphs to answer scientific questions.

Considering Evidence and Evaluating

- Pupils can use test results to make predictions and set up comparative and fair tests.
- Pupil can present a report of their findings through writing, display and presentation.

Design and Technology/Computing

- Pupils will come up with a range of ideas after collecting information.
- Pupils will produce a detailed step-by-step plan.
- Pupils will be able to select the appropriate tools to record their findings.
- Pupils will be able to identify areas for improvement in their designs.
- Pupils are able to persevere through different elements of the design process.

English

- Pupils will set VIPERs reading questions about a space themed text.
- Pupils will complete Space themed non-fiction reading comprehensions.
- Pupils will brainstorm questions they would ask a person linked to Space.

Maths:

- Opportunity to explore the statistics linked to space and the size and shape of the solar system.
- Opportunities to use scale when understanding the Solar System.

Art

- Students will be presented the option to complete a scale model of the moon and film a moon landing using a range of media options including stop motion, live action etc.

Engagement Activity:

A star gazing activity identifying key planets and stars in our solar system.

Key Vocabulary

Elements of the Solar System e.g. dwarf star

Phases of the moon e.g. waxing and waning.

Adjectives to describe Space and space exploration. e.g. pioneering, gargantuan.

Verbs specific to space and space exploration e.g. thrust

Adverbs e.g. to explode violently.

How you can help:

Highlight areas of the solar system that appear in the news.

Encourage your children to read non-fiction texts which link to our termly theme.