

SCIENCE: Earth Space and Forces

1. **What is water resistance? Investigate the effects of water resistance on moving surfaces**
2. **What do we know about space Can we prove? Like to find out? Discovery session on Space.** What are **spherical bodies**? Describing the Sun, Earth and Moon as approximately spherical bodies **What is the movement of Earth in relation to other planets?** Describing the movement of the Earth, and other planets, relative to the Sun in the solar system by learning the order of the planets and how they move in the solar system.
3. **How do day and night occur?** Using the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky by examining why the sun appears to move and the arguments for the Earth's rotation. **What is the movement of the moon in relation to the Earth?** Describing the movement of the Moon relative to the Earth by explaining how the Moon orbits the Earth.
4. **What variables could affect crater size on Earth? The moon?** Take careful measurements using a range of equipment
5. **What is Friction? What would make the best wheels to use on a space buggy?** Report and present findings from enquiries Identify and investigate the effects of friction on moving **surfaces**
6. **Who was Katherine Johnson?** Write a biography about her life (golden opportunity)

ART:

1. Art drawing assessment – still life shoe drawing

Surface and colour: Peter Thorpe Inspired art / Layering / collage of the earth.

2. Who was Peter Thorpe? – comment on artist artwork
3. What are different mediums in art? Experimenting with different mediums
4. Design and create rocket using
5. create space background using mixed textures (rough and smooth, plain and patterned)
6. Evaluation of their art work- what could be improved next time.

DT:

Mechanisms and electrical: Design, make a space buggy (Space station trip workshop)

Computing:

Creating Media - Vector Drawing

MFL:

Following Music scheme of work

ENGLISH:

To discuss: Recounts: Biographies and Autobiographies – link to Buzz Aldrin / balanced arguments

To entertain: Science fiction

Golden Opportunities: Eye witness statement/ non chronological report

What's Out there?



Launch: Nasa Space centre workshop

Landing: National Space centre visit

LFL:

Peculiar feelings
Emotional changes
Seeing stuff online
Making babies

MUSIC:

10 week Guitar lessons with specialist.

The Big questions...

HISTORY: History of the space race.

1. **What is the Space race? To build an overview of world history:** Compare some of the times studied with those of the other areas of interest around the world.
2. **What is the historical timeline of space? To understand chronology:** Use dates and terms accurately in describing events/ Identify periods of rapid change in history and contrast them with times of relatively little change

Geography: The geographical aspects of the planets

1. **What biomes and climates are found on different planets? To investigate patterns:** Describe and understand key aspects of physical geography/ understand some of the reasons for geographical similarities and differences
2. **What can be seen all over the world from space? To investigate places:** Use a range of geographical resources to give detailed descriptions and opinions of the characteristic features of a location
3. **What countries are involved in the space exploration? To investigate places:** Use a range of geographical resources to give detailed descriptions and opinions of the characteristic features of a location

RE – Inspirational people

1. **How is Jesus Our Saviour? What does Jesus invite us to do?** Understand what it means to be a follower of Jesus. Reflect on what it means for you.
- 2: **What are the Beatitudes?** Know that the Beatitudes show us the way to live. Think of ways they can help us to be true followers of Jesus.
- 3: **What does Jesus mean by 'blessed are the merciful? Who was Bakhita? What is a saint?** Understand why Jesus blessed the merciful. How religious beliefs can affect lives
- 5: **What does Jesus mean by 'blessed are the pure in heart for they shall see God? How was Edith Stein a disciple?** Know why Jesus blessed the pure in heart. Reflect on the presence of God within you.
- 6: **What does Jesus mean by 'blessed are those persecuted for the sake of righteousness?** Know why Jesus blessed those persecuted for doing what is right. Think of what we can do to help those suffering today.
- 7: **What does Jesus mean by 'blessed are the poor in spirit?** Understand why Jesus blessed the poor in spirit. Reflect on what we can learn from Fr Arrupe.
- 8: **What does Jesus mean by 'blessed are the meek? Know that the meek are blessed.** Reflect on the importance of trying to do God's will.
- 9: **What is a saint?** Know what it means to be a saint.