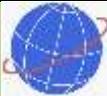


| Key questions to answer | | | |
|---|--|---|---|
| How is our Solar System organised? How do the Earth and the other planets move relative to the Sun? How do we know the Earth is spherical? How does the rotation of the Earth cause day and night? | | | |
| Core knowledge to know and use | Words you need to remember and use in your learning | | |
| Science The sun is the star at the centre of our Solar System and it has eight planets. The Earth rotates on its axis. The Earth (and the other planets) orbit around the sun. The moon orbits the Earth. For many years the Earth was thought to be flat due to a lack of scientific evidence. Over many years, scientific evidence began to support the idea of a spherical Earth. Half of the Earth is always facing the sun. The other half is in darkness until the planet turns around. The Earth rotates on its axis whilst orbiting the Sun – it takes one day to go all the way round. |  | System | A group of objects combined to form a whole or to move or work together. |
| |  | Rotate | To turn about an axis or a centre. |
| |  | Orbit | The path taken by one thing around another. To orbit is to move in a circle around another object. |
| |  | Spherical | Having the form of a sphere. |
| |  | Evidence | An outward sign. |
| |  | Appears | To seem or look one way. |
| |  | Axis | The straight line about which a body rotates. |
| | Art A full range of value (shades) in the correct locations leads to the illusion of form and light. |  | Value |
|  | | Form | Three dimensional depth in a piece of art. |
| Design and Technology Lunar Rovers need to have their own power source and to be able to carry two astronauts, their equipment and lunar samples. |  | Axle | A pin, pole or bar on or with which a wheel revolves. |

Y5 Autumn 1

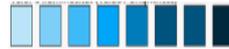
Project: To Infinity and Beyond!



System



Rotate



Value



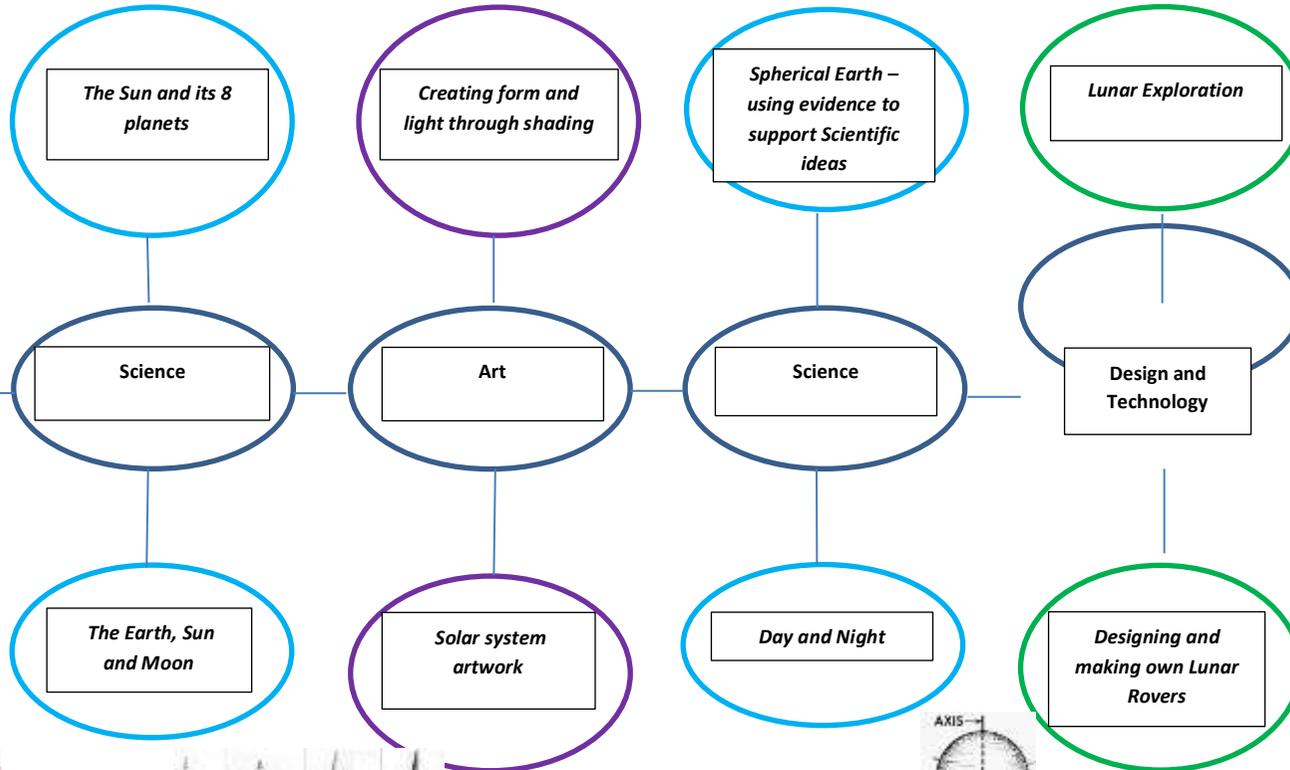
Spherical



Evidence

Project Stimulus

This half term we will be visited in school by the Wonderful Wonderdome! The children will explore our Solar System, first hand through a presenter-led show immersed in a real planetarium setting ... all in the comfort of our school hall!

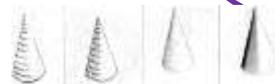


Project Outcome

Throughout our project we will be finding out about the many and varied wonders of space. We will create our own Top Trumps cards as we go, hosting our own tournament played with these class-made cards at the end of the project.



Orbit



Form



Appears



Axis



Axle

| | |
|---|---|
| <p>Driver 1 - Citizenship</p> | <p>Driver 2 - Aspiration</p> |
| <p>What roles are available within the Space program? What do you need to do to get a job in the Space sector? How can I develop my skills to make my own contribution in the future?</p> | <p>Can I study Space at University? How did role models within the Space sector get where they are today? What does the future of Space exploration hold and how can I be a part of it?</p> |

Core Curriculum Learning

Reading

In our guided reading sessions, we are focussing on understanding the thoughts and feelings of characters based on what they do or say (inferred meaning), using evidence from the text to support our ideas. We learn new vocabulary every week by finding definitions in a dictionary and then aim to apply these new words in our writing.

Writing

Using the story of 'Alien Landing' as inspiration, we are going to write our own versions of this stories where our characters have an out of this world experience! We will write setting descriptions, developing our sensory vocabulary before moving on to build up tension and portray action. Later on in the half term we will write Planet Poetry and use the Lunar Landings as a basis for journalistic writing.

Spellings

Spellings will be given out every two weeks and the children will be tested on a two-week cycle.

Maths

This half term we are focussing on the place value of numbers up to 1,000,000. We will order and compare numbers before learning how to round them to the nearest 10, 100 and 1000. We will then learn more about negative numbers before moving on to solving a wide range of problems. Later on in the half term, we will continue to develop our formal calculation methods for addition and subtraction.

Multiplication Tables

Following on from the children's hard work in Year 4, we will continue to practise the multiplication tables up to 12x12.

Learning at Home this term

Choose one area of Space which particularly interests you. It could be The Space Race, Famous Astronauts, The Planets, Stars or the Moon. Then, make a creative response to your choice such as: a PowerPoint, poster, short film, poem, information guide, newspaper article, art work (painting, 3D work, printing or drawing). Ask the year 5 team in school for examples of templates and resources that you can take home to use.

You might also want to find out more on the subject by visiting some awe inspiring places, such as The National Space Centre in Leicester or Wakefield's Festival of the Moon. And don't forget our local libraries are jam packed with both fiction and nonfiction books about our Solar System e.g. Planet Awesome or Cosmic.

We can't wait to hearing all about your learning at home!