

What I already know...

I can observe changes across the four seasons, observe and describe weather associated with the seasons and how day length varies. (y1)

I can recognise that shadows are formed when the light from a light source is blocked by an opaque object (y1)

I can recognise that shadows are formed when the light from a light source is blocked by an opaque object (y3)

The skills I already

Concluding – *Report on findings using a chosen form of presentation*

Predict – *I can make a prediction using **because** and accurate scientific evidence learned from the topic.*

Observing – *take accurate measurements using standard unit*

Key Vocabulary

Earth

Sun

Moon

Orbit

rotation

planets

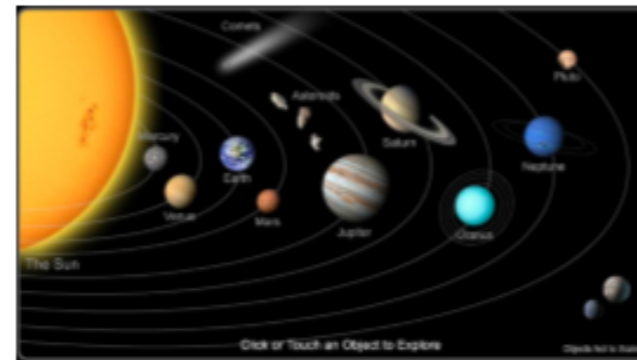
Day and

Solar

Cosmic

In this topic, we are learning about Earth and Space

This half term we will become astronomers and physicists. We will be learning about the earth and the relationship between the earth, the sun and the moon. We will be applying our knowledge of the solar system to make predictions about planets temperatures and orbit times. We will also learn the science behind why we have day and night.



I will learn ...

- to describe the movement of the earth, and other planets, relative to the Sun in the solar system.
- to describe the movement of the Moon relative to the Earth.
- to describe the Sun, Earth and Moon as approximately spherical bodies.
- to use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.

The skills I will learn are...

- Predicting – *I can make a prediction using **because** and accurate scientific evidence learned from current and previous topics.*
- Concluding – *I can conclude making casual relationships from my results and begin to comment on the reliability of my results.*

Year Group half termly topic overview—Autumn 2.5

Topic: Cosmic

Cosmic is a book study about a boy who ends up in space with his friend. This topic builds skills in speech and how speech can move a story on. Children are given the opportunity to carry the Cosmic story on, exploring setting de-

HOOK: *Astrodome*

OUTCOME: *Audio version of children's stories to be put on the website.*

Driving Subject(s): Science,

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 movement of the sun across the sky

Pupils should be introduced to a model of the sun and Earth that enables them to explain day and night. Pupils should learn that the sun is a star at the centre of our solar system and that it has 8 planets: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune They should understand that a moon is a celestial body that orbits a planet

Pupils might work scientifically by: comparing the time of day at different places on the Earth through internet links and direct communication

Curriculum Links:

PE

- develop flexibility, strength, technique, control and balance [for example, through athletics and gymnastics]*
- perform dances using a range of movement patterns*
- compare their performances with previous ones and demonstrate improvement to achieve their personal best.*

Music

- OUTCOME: Piece of music composed and performed by the group to the class.*
- Music linked to Holst- Planets*

Applied Literacy:

- Punctuation speech correctly and moving a story on through the use of speech.*
- Setting descriptions.*
- Characterisation through the use of hot seating.*

Applied Mathematics:

P.P. pre-teach

Children to go into the astrodome 20 minutes early and have a Q and A session.

SMSC:

P4C on prophecy.

Community links/Enterprise/

Experiences:

Astrodome and Space day (How to become an