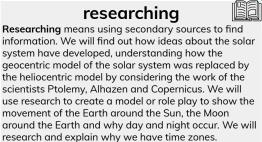
## Earth and Space - Year 5 - Unit 3

# **Scientific Enquiry**

# researching



## pattern seeking

Pattern seeking means looking for links between variables. We will observe and record how shadows caused by the Sun change through the day identifying any patterns.

# **Working Scientifically**

**Asking** scientific auestions Planning an enquiry **Observing** closely Taking measurements Gathering and recording results

**Presenting** results **Interpreting** results Concluding (drawing conclusions) Predicting **Evaluating** an enquiry

#### **Farth**

The planet we live on is called **Earth**. It travels in a the centre of our Solar slightly flattened path. called an orbit, around the spinning ball of hot,

Earth takes 365 1/4 days to complete its orbit around the Sun.

#### rotate

Rotate means to spin or turn around an axis which may be visible or invisible.

The Earth **rotates** on its axis every 24 hours. As Farth rotates half faces the Sun (day) and half faces away from the Sun (night). As the Earth rotates, the Sun appears to move across the sky.

#### the Sun

The **Sun** is a star. It is at System. The **Sun** is a great occurring object in space) glowing gas.



#### star

A star is a celestial body. A giant sphere of hot gas. The **Sun** is a type of star.



#### moon

**Subject Specific Vocabulary** 

A moon is a celestial body (a naturally that orbits a planet. Earth has one **moon** which orbits the Earth taking about 28 days to complete its orbit. Jupiter has four large moons and several smaller ones.



## orbit

The **orbit** is the path that an object, such as a planet, travels around a particular point in space such as the Sun. Orbits. are determined by gravity.

## spherical

A spherical shape is a round, threedimensional shape.



The Sun, Earth and Moon are approximately spherical.

# solar system

There are 8 planets in our Solar System including Earth. These travel around the Sun in fixed orbits. The planets in our **Solar** System are: Mercury,

Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune. (Create a mnemonic like this to help you remember them: My Very Excellent Mother Just Served Us Nachos!)



### Things you learnt in previous topics

In Year 1, you observed changes across the four seasons. In Year 1, you also observed and described weather associated with the seasons and how day length varies.



## How this connects with future learning

In Secondary School, you will measure the force of gravity. You will learn that on Earth g=10 N/kg and this is different on other planets and stars. You will learn about gravitational forces between the Earth and the Moon and between the Earth and the Sun. You will learn about the Sun as a star, other stars in our galaxy and other galaxies. You will learn about why we have seasons and the Earth's tilt; why day length differs at different times of year, in different hemispheres.