

# Science Year group: 5 Term: Autumn 2 Unit: Earth and space

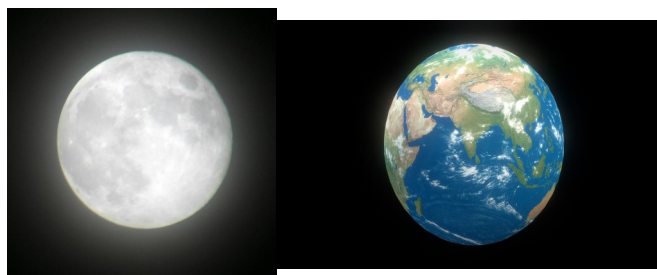


## Vocabulary I need to know

|                                                                  |                                                                                                                                                                                      |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| star,                                                            | a very <u>large ball</u> of <u>burning gas</u> in <u>space</u> that is usually <u>seen</u> from the <u>earth</u> as a <u>point</u> of <u>light</u> in the <u>sky</u> at <u>night</u> |
| (Mercury, Jupiter, Saturn, Venus, Earth, Mars, Uranus, Neptune), | Planets in the solar system                                                                                                                                                          |
| spherical,                                                       | Like a ball                                                                                                                                                                          |
| solar system,                                                    | the <u>sun</u> and the <u>group</u> of <u>planets</u> that <u>move</u> around it                                                                                                     |
| rotates,                                                         | Turns on an axis or central pivot point                                                                                                                                              |
| planets                                                          | an <u>extremely large</u> , round <u>mass</u> of <u>rock</u> and <u>metal</u> , that <u>moves</u> in a <u>circular path</u> around the <u>sun</u> or another <u>star</u>             |
| orbit,                                                           | The circular movement of a planet or moon in space                                                                                                                                   |
| Moon,                                                            | the round <u>object</u> that <u>moves</u> in the <u>sky</u> around the <u>earth</u> and can be <u>seen</u> at <u>night</u>                                                           |

## Things I already know before I start the journey

- **Describe what they see, hear and feel whilst outside.**
- **Observe changes across the four seasons.**
- **Observe and describe weather associated with the seasons and how day length varies.**



## Things I need to know by the end of the journey

The Sun is a star. It is at the centre of our solar system.

There are 8 planets (Mercury, Jupiter, Saturn, Venus, Earth, Mars, Uranus, Neptune). These travel around the Sun in fixed orbits. Earth takes 365¼ days to complete its orbit around the Sun.

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

The Moon orbits the Earth. It takes about 28 days to complete its orbit.

The Sun, Earth and Moon are approximately spherical.

LO: I can explain why we know the Sun, Earth and Moon are spherical.

LO: I can name and describe features of the planets in our solar system and order them.

LO: I can explain how planets move in our solar system

LO: I can explain day and night and the apparent movement of the sun across the sky.

LO: I can investigate night and day in different parts of the Earth.

LO: I can explain the movement of the Moon.

Make arguments for and against a spherical and flat earth.

Create a record of the planets, their features and their order in the solar system

Create a video clip / podcast explaining how planets move through the solar system.

Children write an explanation text for night and day

Children use the time zones map to calculate times in other countries

Children to write a short explanation text describing their understanding of the movement of the moon