

# Year 5: Earth and Space Knowledge Organiser

| Subject Specific Vocabulary |  | Exciting books   | Sticky Knowledge about Earth and space   |
|-----------------------------|--|--|--|
| <b>orbit</b>                | An orbit is a repeating path that one celestial body takes around another.   |   | <input type="checkbox"/> One million Earths could fit inside the sun – and the sun is considered an average-sized star.  |
| <b>solar system</b>         | The solar system is made of the eight planets that orbit our sun; it is also made of asteroids, moons, comets and lots more.   |  | <input type="checkbox"/> An asteroid about the size of a car enters Earth's atmosphere roughly once a year – but it burns up before it reaches us.                                   |
| <b>astronomical</b>         | Astronomy is the study of outer space, focusing on celestial bodies such as stars, comets, planets and galaxies.   |  | <input type="checkbox"/> The sunset on Mars appears blue.  |
| <b>planet</b>               | There are 8 planets in our solar system, they are Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune.  |  | <input type="checkbox"/> Earth is the third planet from the sun and the only world known to support an atmosphere with free oxygen, oceans of liquid water on the surface, and life. |
| <b>rotation</b>             | Rotation is when a shape is turned around a fixed point.   |  | <input type="checkbox"/> There is no atmosphere in space, which means that sound has no medium or way to travel to be heard.   |
| <b>spherical</b>            | Something spherical is like a sphere in being round, or more or less round, in three dimensions.   | <b>Important facts to know by the end of the Earth and space topic:</b> <ul style="list-style-type: none"> <li>• Know about and explain the movement of the Earth and other planets relative to the Sun.</li> <li>• Know about and explain the movement of the Moon relative to the Earth.</li> <li>• Know and demonstrate how night and day are created.</li> <li>• Describe the Sun, Earth and Moon (using the term spherical).</li> <li>• Know information about the planets.</li> <li>• Neil Armstrong was the first man to step on the moon.</li> </ul> | <input type="checkbox"/> Venus is the hottest planet in the solar system and has an average surface temperature of around 450° C.  |
| <b>crescent moon</b>        | It is a slither of the moon that is lit up and can be seen. It is less than half the moon.   |   | <input type="checkbox"/> The sheer size of space makes it impossible to accurately predict just how many stars exist.  |
| <b>gibbous moon</b>         | The best way to describe a gibbous moon is that the moon is three-quarters lit up.   |  |  |
| <b>eclipse</b>              | An eclipse occurs when an astronomical object is temporarily obscured. A lunar eclipse is when the Earth moves between the Sun and the Moon, therefore blocking the Sun's rays from striking the Moon. |  |  |
| <b>lunar</b>                | Is anything related to the moon.   |  |  |