# Year 5: Earth and Space Knowledge Mat

## Subject Specific Vocabulary

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| orbit | An orbit is a repeating path that one celestial body takes around another. |
| solar system | The solar system is made of the eight planets that orbit our sun it is also made of asteroids, moons, comets and lots, lots more. |
| astronomical | Astronomy is the study of outer space focusing on celestial bodies such as stars, comets, planets, and galaxies. |
| planet | There are 8 planets in our solar system, they are Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune. |
| rotation | Rotation is when the shape is turned around a point. |
| spherical | Something spherical is like a sphere in being round, or more or less round, in three dimensions. |
| crescent moon | It is a slither of the moon that is lit up and can be seen. It is less than half the moon. |
| gibbous moon | The best way to describe a gibbous moon is that the moon is three-quart lit up. |
| eclipse | 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 |
| lunar | Is anything related to the moon. |



## Important facts to know by the end of the Earth and space topic:

- **know about and explain the movement of the Earth and other planets relative to the Sun.**
- **know about and explain the movement of the Moon relative to the Earth.**
- **know and demonstrate how night and day are created.**
- **describe the Sun, Earth and Moon (using the term spherical).**
- **Know information about the planets.**
- **Neil Armstrong was the first man to step on the moon.**

## Sticky Knowledge about Earth and space

- ❑ One million Earths could fit inside the sun – and the sun is considered an average-size star.
- ❑ An asteroid about the size of a car enters Earth's atmosphere roughly once a year – but it burns up before it reaches us.
- ❑ The sunset on Mars appears blue.
- ❑ 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.
- ❑ There is no atmosphere in space, which means that sound has no medium or way to travel to be heard.
- ❑ Venus is the hottest planet in the solar system and has an average surface temperature of around 450° C
- ❑ The sheer size of space makes it impossible to accurately predict just how many stars we have.