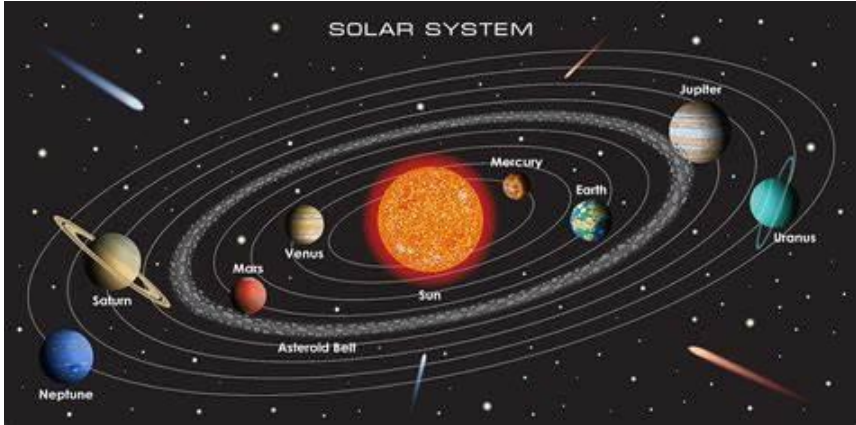


## OUT OF THIS WORLD – KNOWLEDGE ORGANISER TERM 2

| Subject Specific Vocabulary |                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Sticky Knowledge about Earth and space                                                                                                                                            |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| orbit                       | An orbit is a repeating path that one celestial body takes around another.                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | The moon appears to change shape because of the way the sun falls on it as it orbits the earth.                                                                                   |
| 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 more.                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/> The order of the planets from the sun: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune<br><b>My Very Easy Method Just Speeds Up Naming</b> |
| astronomy                   | Astronomy is the study of outer space, focusing on celestial bodies such as stars, comets, planets and galaxies.                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/> Earth is said to be in the Goldilocks zone – just the right distance from the sun for life to flourish.                                                  |
| planet                      | A celestial body that orbits a star, is spherical and has cleared smaller objects away from its orbit.                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/> Earth is the only world known to support an atmosphere with free oxygen, oceans of liquid water on the surface, and life.                                |
| rotation                    | 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.                                                      |
| spherical                   | 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 by the rotation of the earth.</li><li>• Describe the Sun, Earth and Moon (using the term spherical).</li><li>• Know about and explain why seasons change</li><li>• Know the names of the planets in the solar system</li></ul> | <input type="checkbox"/> Seasons in the north and south change because of Earth's tilt and its orbit of the sun.                                                                  |
| celestial body              | Any natural object found outside the earth's atmosphere – examples: such as the moon, other planets, stars, asteroids and comets.                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/> The greater the mass of a planet, the more gravity it has (it is easier to leap on the moon than on Earth)                                               |
| star                        | A celestial body that produces its own energy. The sun is the star at the centre of our solar system – the Milky Way.                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                   |
| solar system                | A series of planets that orbit a star.                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                   |
| lunar                       | Anything related to the moon.                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                   |
| gravity                     | A force that tries to pull two things together – the larger the mass of the object, the greater the gravitational pull. The sun's gravity holds all the planets in our solar system in orbit. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                   |