**Knowledge Organiser – Spring 2024**

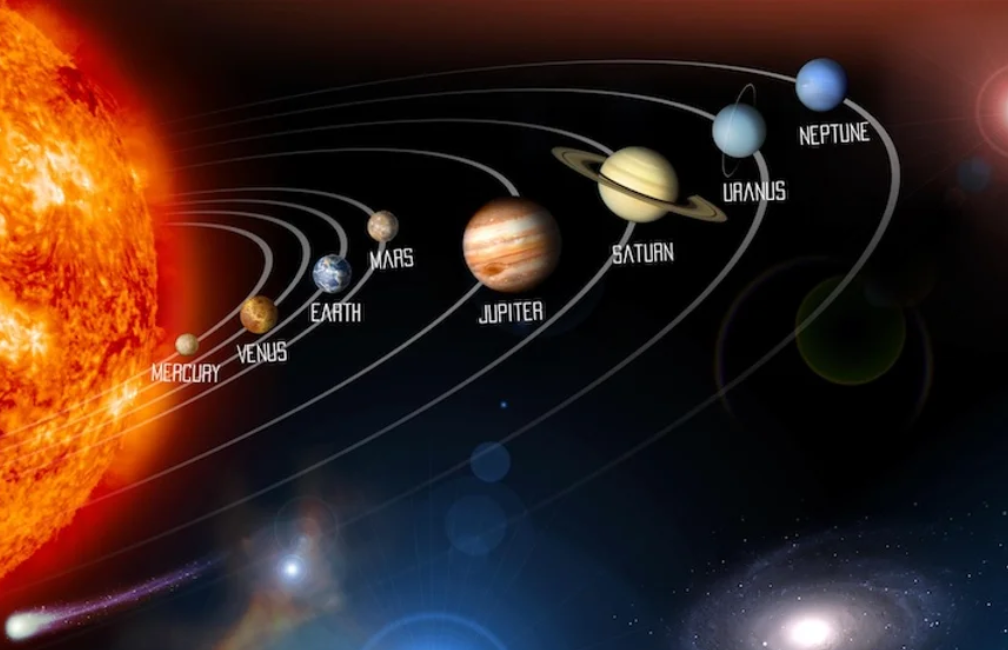
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| **Subject** | **Topic Title** | **Phase** |
| Science | Space (Y5) | Year 5/6 |

**Key Vocabulary What do I need to know?**

**I need to know:**

* **The sun is the centre of our Solar System.**
* **The Solar System is a collection of planets, moons and the Sun.**
* **There are eight planets that orbit the Sun.**
* **The Sun is the largest object in the Solar System and has the greatest gravitational pull. This keeps all the planets in orbit around the Sun.**
* **The Earth rotates once around its axis in a 24 hour period. This is how we have day and night.**
* **Earth is the only known planet to support plant and animal life.**
* **The four seasons occur on planet Earth because the Earth’s axis is tilted.**

**Key images / maps**



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| **Key Vocabulary** | **Definition** |
| Solar system | A collection of the eight planets and their moons, which orbit the Sun. |
| Planets | Large, natural objects that orbit stars, such as the Sun. |
| Stars | **Large balls of burning gas that release heat and light.** |
| Sun | **The star at the centre of our solar system that releases heat and light.** |
| Orbit | **The path an object takes around another object, for example the Earth goes around the Sun.** |
| Gravity | **An invisible force that pulls things to the centre of the Earth.** |
| Axis | **An imaginary line that runs from the North pole to the South Pole. The earth’s axis is slightly tilted.** |
| Rotation | **The spinning of the Earth around its axis. The earth rotates once every 24 hours.** |

**By the end of this topic, I will be able to:**

* Show the planets in correct order from the Sun.
* Explain how the Earth rotates and revolves.
* Describe how the day and night, and seasonal changes occur.
* Identify the chemical and physical elements to sustain life on planets.