Key Vocabulary and Definitions:

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| Celestial |  | Relating to the sky or outer space. |
| Earth |  | The planet on which we live. |
| Moon |  | A planetary object which orbits the Earth’s gravitational field. |
| Orbit |  | The curved path of a celestial object or spacecraft around a star, planet, or moon. |
| Planets |  | A celestial body moving in orbit around a star. |
| Rotate |  | To move in a circle around an axis or centre. |
| Solar System |  | The collection of 8 planets and their moons in orbit around the sun. |
| Spherical |  | A three-dimensional circle, relating to the properties of spheres. |
| Sun |  | The star around which the Earth orbits. |
| Star |  | A large ball of burning gas in space that is usually seen from Earth as a point of light in the sky. |

What should I already know?

* Explore the natural world around them. (Reception – Earth and space)
* Describe what they see, hear and feel whilst outside. (Reception – Earth and space)
* Observe changes across the four seasons. (Y1 - Seasonal changes)
* Observe and describe weather associated with the seasons and how day length varies. (Y1 - Seasonal changes)

Scientific Skills:

* Describe the movement of the Earth, and other planets, relative to the Sun in the solar system.
* Describe the movement of the Moon relative to the Earth.
* Describe the Sun, Earth and Moon as approximately spherical bodies.
* Use the idea of the Earth’s rotation to explain day and night and the apparent movement of the Sun across the sky
* Report and present findings from enquiries using appropriate scientific language (TAPS)

Chart, sunburst chart

Description automatically generated

Teaching Sequence

1. To describe the movements of the Sun, Earth and Moon.
2. To explore how the rotation of Earth creates day and night.
3. To learn about how Earth’s tilt creates seasons.
4. To discover how theories about our solar system have changed.
5. To investigate the planets in the solar system (TAPS).

Blooms Taxonomy – Specific Verbs to Use in Lesson Aims

Knowledge: Describe, find, identify, list, locate, name, recognise, retrieve Comprehension: Classify, compare, explain, infer, interpret, paraphrase, summarise Application: Carry out, implement, use Analysis: Deconstruct, Organise, outline, structure Synthesis: Construct, design, devise, invent, make, plan, produce, Evaluation: Appraise, assess, choose,

Scientific Skills:

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| Term 2 | Let’s Talk (Explorify) | Scientific Knowledge | Scientific skill |
| Lesson 1 | [Goldilocks planets - Explorify](https://explorify.uk/en/activities/odd-one-out/goldilocks-planets) | * Describe the movement of the Earth, and other planets, relative to the Sun in the solar system. * Describe the Sun, Earth and Moon as approximately spherical bodies. | To Observe and Measure |
| Lesson 2 | [There was no Moon? - Explorify](https://explorify.uk/en/activities/what-if/there-was-no-moon) | * Use the idea of the Earth’s rotation to explain day and night and the apparent movement of the Sun across the sky * Describe the Sun, Earth and Moon as approximately spherical bodies. | To Observe and Measure |
| Lesson 3 | [To the Moon and beyond - Explorify](https://explorify.uk/en/activities/whats-going-on/to-the-moon-and-beyond) | * Describe the Sun, Earth and Moon as approximately spherical bodies. | To Observe |
| Lesson 4 | [The Sun rotated and the Earth didn't? - Explorify](https://explorify.uk/en/activities/what-if/the-sun-rotated-and-the-earth-didnt) | * Describe the movement of the Earth, and other planets, relative to the Sun in the solar system. | Interpret and Report  Report and present findings from enquiries using appropriate scientific language (TAPS) |
| Lesson 5 | [Earth - Explorify](https://explorify.uk/en/activities/whats-going-on/earth) |  | Interpret and Report |