Class 2 **Madron Daniel Science Small Step Progression**

Earth and Space – Year 5 Unit – Year D

Retrieval vocab: N/A **New Vocab** Earth, Sun, Moon, (Mercury, Jupiter, Saturn, Venus, Mars, Uranus, Neptune), spherical, solar system, rotates, star, orbit, planets	**Previous learning** 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)	**Links with Vision and Values.** *Stimulate in every child a sense of curiosity and excitement about the world*

	Working scientifically/ enquiry focus	Curriculum Strand/ Focus	Small step objective	Previous learning within the unit.	Lesson content	Outcome
1	Identify/ classify	Earth and Space	Identify and name the planets inthe solar system.	*N/A*	What are the names of the planets in the solar system?	The children can: Name the planets in the solar system based on their distance from the Sun. They will understand that the Sun is a star (not a planet). They will know some facts about a chosen planet.
2	Identify/ classify Research	Earth and Space	To understand that the Sun, Earth and Moon are spherical.	*Name the planets in the solar system based on their distance from the Sun. They will understand that the Sun is a star (not a planet). They will know some facts about a chosen planet.*	What shape is the Earth, Sun and Moon? What evidence do we have from the early Space missions? (Apollo Missions - Neil Armstrong)	The children can: Explain that the Sun, Earth and Moon are spherical.
3	Identify/ classify Research	Earth and Space	To be able to describe the movement of the Earth, and other planets, relative to the sun in the solar system.	*As above* *Explain that the Sun, Earth and Moon are spherical.*	What is the order of the planets and how do they move in the solar system?	The children can: Order the planets and talk about how they move in the solar system.

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4	Identify/ classify Research	Earth and Space	To be able to distinguish between geocentric and heliocentric ideas of planetary movement by exploring scientific theories and evidence.	*As above* *Order the planets and talk about how they move in the solar system.*	What is the Geocentric and Heliocentric models of the solar system?	The children can: Distinguish between geocentric and heliocentric models.
5	Identify/ classify Research	Earth and Space	To be able to explain that day and night is due to the rotation of the Earth. To explain why night and day occur at different times in different places.	*As above* *Distinguish between geocentric and heliocentric models.*	Why do we have day and night?	The children can: Explain why day and night occurs, and how timings change depending on your position on the planet.
6	Identify/ classify Research	Earth and Space	To be able to describe the movement of the moon relative to the Earth.	*As above* *Explain why day and night occurs and how timings change depending on your position on the planet.*	How does the moon move?	The children can: Describe the movement of the moon relative to the earth.