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| **Year 5: Spring 2 Earth and Space (Strand: Physics)** |
|   | **Vocabulary**EarthAxis RotateSolar systemPlanetsOrbitsStarUniverseMilky wayGalaxies |
| **What I already know:** |
| Reception* Explore the natural world around them.
* Describe what they see, hear and feel whilst outside.

Year 1* Observe changes across the four seasons.
* Observe and describe weather associated with the seasons and how day length varies.
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| **What I will learn now:** |
| **Year 5*** 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
 | **Key facts*** The Sun is at the centre and the planets follow individual paths called orbits around it.
* They all travel in the same direction, but move at different speeds and take different times to complete one orbit.
* All planets within the solar system orbit the sun.
* The order of the planets, starting with the one closest to the Sun is: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus then Neptune.
* A moon is a celestial body that orbits a planet.
* The Earth, moon and sun are known as spherical bodies.
* The moon orbits around the Earth, the planets orbit around the sun and the sun remains stationary.
* The Earth Rotation around stationary sun creates the apparent movement of the sun across the sky.
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| **What I will learn next:** |
| KS3* Gravity force, weight = mass x gravitational field strength (g), on Earth g=10 N/kg, different on other planets and stars; gravity forces between Earth and Moon, and between Earth and Sun (qualitative only).
* Our Sun as a star, other stars in our galaxy, other galaxies.
* The seasons and the Earth’s tilt, day length at different times of year, in different hemispheres.
* The light year as a unit of astronomical distance.
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| **Year 5: Spring 2Earth and Space (Strand: Physics)** |
| **Question 1: Join up these labels to the correct planet, star or satellite** |
| **Pre** | **Post** |
| **Question 2: How long does it take for the earth to spin once on its axis?** |
| **Pre** | **Post** |
| **Question 3: Roughly what shape are the Earth, Sun and Moon?** |
| **Pre** | **Post** |
| **Question 4: Say whether the following statements are true or false** |
| **Pre**1. The Earth orbits around the sun
2. The sun is a planet.
3. The earth is a satellite of the moon.
4. The gravity of the sun keeps the planets in orbits.
 | **Post**1. The Earth orbits around the sun
2. The sun is a planet.
3. The earth is a satellite of the moon.
4. The gravity of the sun keeps the planets in orbits.
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| **Question 5: Shade in the circles to show the phases of the moon.** |
| **Pre** | **Post** |