

Science | WPC | 2020-21 | Earth and Space

1. Describe the movement of the Earth, and other planets, relative to the Sun in the solar system
2. Describe the movement of the Moon relative to the Earth
3. Describe the Sun, Earth and Moon as approximately spherical bodies
4. Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky

	Assessment guidance	Key learning	Key vocabulary
Earth and space	Shows understanding of a concept using scientific vocabulary correctly	<p>The Sun is a star. It is at the centre of our solar system. There are 8 planets (can choose to name them, but not essential). These travel around the Sun in fixed orbits. Earth takes 365¼ days to complete its orbit around the Sun. The Earth rotates (spins) on its axis every 24 hours. As Earth rotates half faces the Sun (here it is day) and half is facing away from the Sun (night). As the Earth rotates the Sun appears to move across the sky. The Moon orbits the Earth. It takes about 28 days to complete its orbit. The Sun, Earth and Moon are approximately spherical.</p>	<p>Earth Sun Moon Mercury Jupiter Saturn Venus Mars Uranus Neptune Spherical Solar system</p>
	Applying knowledge in familiar related contexts, including a range of enquiries	<p>Use secondary sources to help create a model e.g. role play or using balls, to show the movement of the Earth around the Sun and the Moon around the Earth. Use secondary sources to help make a model to show why day and night occur Make first-hand observations of how shadows caused by the Sun change through the day Make a sundial Consider the views of scientists in the past and evidence used to deduce shapes and movements of the Earth, Moon and planets before space travel</p>	<p>Rotates Star Orbit Planets</p>

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Lesson Progression	
1	Explain why we know that the Sun, Earth and Moon are spherical and identify scientific evidence which does or does not provide evidence to support this idea.
2	Name and describe features of the planets in our solar system, including their relative size. Order the planets in our solar system and describe their relative distances from the Sun.
3	Explain how day and night occur and that this is due to rotation of the Earth. Use this knowledge to explain the apparent movement of the sun across the sky. Make a sundial and observe changes throughout the day.
4	
5	Explain that the Moon orbits the Earth, not the Sun. Explain how the Moon moves relative to the Earth and Sun, meaning it appears to change shape, and that these are known as 'phases'.