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| **Key Information** | **Key Scientists** | **Subject Specific Vocabulary** | |
| ***Day and Night -*** *The Earth rotates one complete turn every 24 hours to give us day and night. When Britain faces the Sun it is daytime in Britain but the other side of the world is in darkness. So, in Australia it is the middle of the night.* | **Aristarchus (310 -230 BC)**  **Aristarchus** was the first person to figure out that the Earth travels around the sun and not vice versa.  **Nicolas Copernicus (1473-1543)**  **Nicolas Copernicus** had the idea that the Earth revolves on its axis and the Earth and other planets orbit around the Sun.  **Galileo Galilei (1564-1642)**  Galileo Galilei was the first person to make a study of the skies with a telescope. | **axis** | The **axis** is the imaginary line through the **earth** that extends from the North Pole to the South Pole. As **Earth** rotates, it seems like the sun is moving across the sky, but it's really the **Earth** that is spinning. It takes 24 hours to complete one rotation, which is why there are 24 hours in one day. |
| ***Phases of the moon -*** *The phases of the Moon are the different ways the*[*Moon*](https://kids.kiddle.co/Moon)*looks from*[*Earth*](https://kids.kiddle.co/Earth)*over about a*[*month*](https://kids.kiddle.co/Month)*.*  *As the Moon orbits around the Earth, the half of the Moon that faces the Sun will be lit up. The different shapes of the lit portion of the Moon that can be seen from Earth are known as phases of the Moon. Each phase repeats itself every 29.5 days.* | **rotate**  **The planets** | A **rotation** is a turn of a shape (the Earth rotates or spins).  The planets in order from nearest to the Sun are: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune. (Pluto has been downgraded to a dwarf planet and is no longer in the list.)  The order can be remembered using the mnemonic: **M**y **V**icious **E**arthworm **M**ight **J**ust **S**wallow **U**s **N**ow |
| ***How long does it take the earth to orbit the sun?*** *365 days so every four years there is a leap year with 366 days (29th February)* | **solar system** | The Solar System is made up of the Sun and all of the smaller objects that move around it. Apart from the Sun, the largest members of the Solar System are the eight major planets. |
| ***How long does it take the moon to orbit earth?*** *One lunar month (see vocab list)* | **sphere** | A **sphere** is a perfectly-round 3D shape in the shape of a ball. The Earth is an approximate sphere (not a perfect sphere). |
| ***How long does it take the earth to complete one rotation (spin) on its axis?*** *24 hours* | **lunar month** | A **lunar month** is the amount of time it takes for the **Moon** to pass through each of its phases (new **moon**, half, full **moon**), and then return back to its original position. |
| **orbit** | An **orbit** is the path that an object takes in space when it goes around a star, a planet, or a moon. For instance: “The earth **orbits** around the Sun.” |
| **Sun** | The Sun is a star that is in the centre of the solar system. The planets all orbit the sun. The Sun’s force of gravity ensures the planets orbit at the correct distance and speed. |
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