



Year 5 Earth and Space

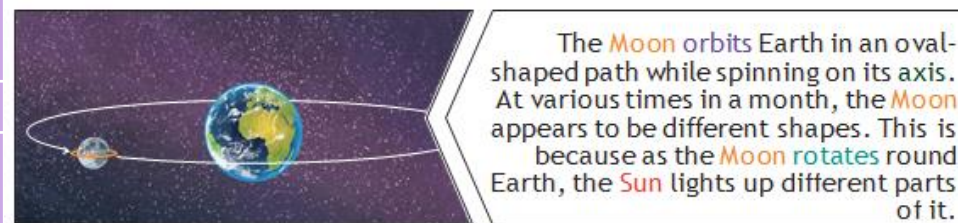
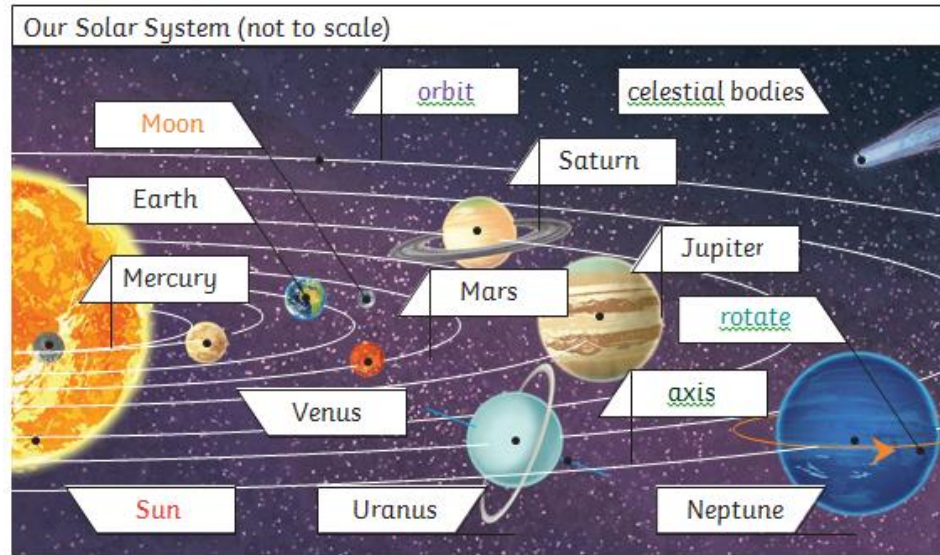
Strand: Earth Science

Big idea: The Earth is one of eight planets that orbit the sun. The Earth is tilted and spins on its axis leading to day and night, the seasons and the climate.

Big Question: What shape is the moon and does it change?

Topic vocabulary

sphere	a round, solid figure
spherical	A shape that is round and solid
lunar	having to do with the moon.
phase	one of the stages of the moon as it appears to change in the sky
solar	having to do with the sun.
orbit	to move in a circle around
rotate	to turn around a fixed point
axis	a real or imaginary line through the centre of an object, around which the object turns.
astronomer	a scientist who studies the universe beyond the earth.
galaxies	A group of stars together
constellations	a group of stars in the sky that is thought to look like, and is named after, an animal, object, or person.



Earth **rotates** (spins) on its axis. It does a **full rotation** once in every 24 hours. At the same time that Earth is **rotating**, it is also **orbiting** (revolving) around the **Sun**. It takes a little more than 365 days to **orbit** the **Sun**. Daytime occurs when the side of Earth is facing towards the **Sun**. Night occurs when the side of Earth is facing away from the **Sun**.



The Phases of the Moon



- Galileo Galilei was born in Pisa, Italy in 1564 and he died in 1642.
- Galileo was a ground breaking astronomer, physicist, mathematician, philosopher and inventor. Among his inventions were telescopes, a compass and a thermometer.
- In 1610 he made observations of 4 objects surrounding Jupiter that behaved unlike stars, these turned out to be Jupiter's four largest satellite moons: Io, Callisto, Europa and Ganymede.



A telescope is used to look at stars and planets