## Bishop Bronescombe C of E Primary School

Topic: Earth and Space
Year 5/6

- Seasonal changes-how day length changes
- Lives of significant individuals in the past who have contributed to national and international achievements-The Space Race (History topic)

By the end of the unit, your child should be able to:

- 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.



Mercury, Venus, Earth and Mars are rocky planets. They are mostly made up of metal and rock. Jupiter, Saturn, Uranus and Neptune are mostly made up of gases (helium and hydrogen) although they do have cores made up of rock and metal.


Pluto used to be considered a planet but was reclassified as a dwarf planet in 2006.

Strand: Physics

| Key Vocabulary |  |
| :---: | :---: |
| Word | Meaning |
| Sun | A huge star that our Earth and other planets in the solar system orbit around |
| Star | A giant ball of gas held together by its own gravity |
| Moon | A natural satellite which orbits Earth and other planets |
| Planet | A large object, round or nearly round, that orbits a star |
| Spherical body | Astronomical bodies shaped like spheres |
| Satellite | An object or body in space that orbits something else, for example : the Moon is a satellite of Earth |
| Orbit | To move in a regular, repeating curved path around another object. |
| Rotate | To spin e.g. Earth rotates on its own axis |
| Axis. | An imaginary line that a bidy rotates around e.g. Earth's axis (imaginary line) runs from the North Pole to the South Pole |
| Geocentric model | A belief that people used to have that other planets and the sun orbited around Earth |
| Heliocentric model | The structure of the solar system where the planets orbit around the sun |
| astronomer | Someone who studies or is an expert in astronomy (space science) |

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to us that the Sun moves across the sky during the day but the Sun does not move at all. It seems to us that the Sun moves because of the movements of Earth.


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


When the moon appears to be getting bigger, it is waxing. When it appears to be getting smaller, it is waning.



