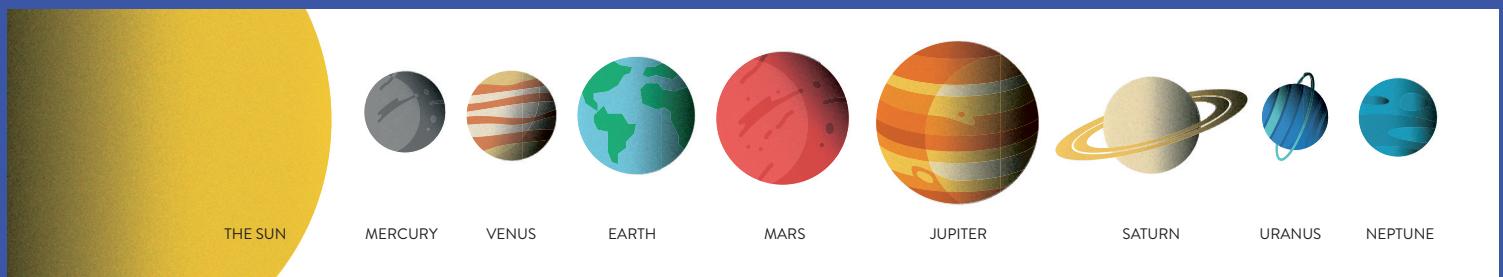


EARTH & SPACE

Core Learning of This Unit

- Space has changed over time.
- The planets in order of their **distance** away from the Sun are: **Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune**.
- The **Universe** contains billions of galaxies, each containing millions or billions of stars.
- The **space** between the stars and galaxies is largely empty.
- The **Solar System** also contains many other objects such as the Asteroid Belt.
- Photographic and other **evidence** shows that, like other planets and the Moon, the Earth is approximately **spherical** in shape.
- The Earth **orbits** the Sun once every 365 days and spins on its **axis** once a day.



Prior Learning & Curriculum Links



Prior learning

- From Lower Key Stage 2: History of Space Exploration.

Curriculum Links

- Eco/Humanities Links: Recognise how scientific discoveries affect how people think, create, behave and live.
- PSHCE: Article 13: Children have the right to find out and share information.

Working Scientifically



- Children describe the movement of the Earth and moon relative to the Sun in our Solar System i.e. children explore what causes the earth to experience night and day on Earth
- Children identify scientific evidence that has been used to support a theory.
- Children describe the difference between the geocentric and heliocentric models of the Solar System.

Vocabulary



- **Milky Way:** The galaxy of which the sun and the solar system are a part and which contains the myriads of stars.
- **Solar System:** A series of planets which orbit our sun.
- **Galaxy:** A collection of gas, dust, and billions of stars and their solar systems.
- **Centric:** Situated at the centre.
- **Geocentric:** With the Earth at the centre.
- **Heliocentric:** With the Sun at the centre.
- **Timeline:** A way of displaying events according to the date they occurred.
- **Orbit:** The path of a planet or moon around another celestial object.
- **Time zone:** A geographical region where the same time is set.
- **Axis:** A real or imaginary line on which something rotates, or a straight line around which things are evenly arranged

Significant People



Mae Carol Jemison is an American engineer, physician and NASA astronaut, who became the first African American woman to travel in space. During her eight days in space, Jemison conducted experiments on weightlessness and motion sickness on the crew and herself.