

## Knowledge Organiser

The Big Question: Is there a pattern between the size of a planet and the time taken to orbit the sun?

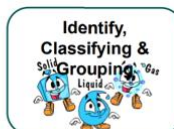
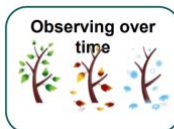


## Key Vocabulary

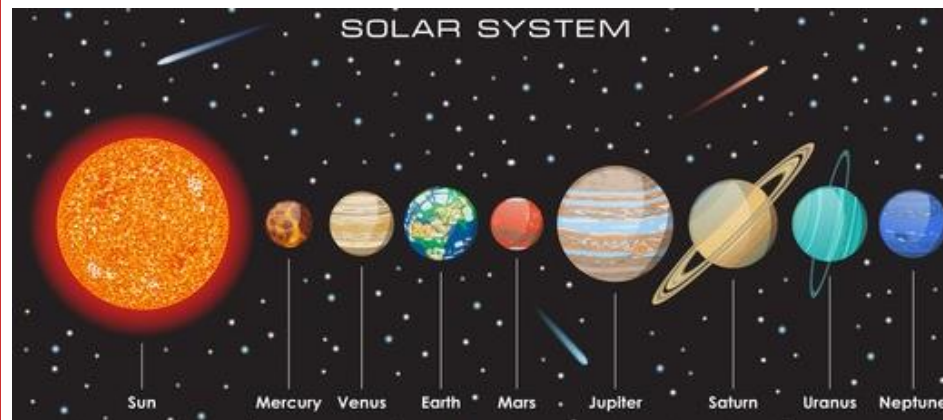
Earth, Sun, Moon, Mercury, Jupiter, Saturn, Venus, Mars, Uranus, Neptune, Spherical, Solar system, rotate, star, orbits, planets, axis, revolve, elliptical, hemisphere, axis, day, night

## Conceptual Science Knowledge – Earth and Space.

Pluto was a main planet but was downgraded to a dwarf planet in 2006. The Moon orbits Earth in an oval-shaped path while spinning on its axis.



## Physics



## Tasks for experts

1. Define the word orbit.
2. Explain the apparent movement of the Sun across the sky.
3. Identify how long it takes Earth to make a full rotation.
4. Define what a Solar System is.

## Domain Knowledge

- It appears to us that the Sun moves across the sky during the day, but the Sun does not move at all.
- Earth rotates (spins) on its axis. It does a full rotation once every 24 hours. At the same time, Earth is also orbiting (revolving) around the Sun.
- Daytime occurs when the side of the Earth is facing towards the Sun. Night time occurs when the side of Earth is facing away from the Sun.

## STEM links to try at home

Make your own model of our Solar System. You could make one out of fruit, clay, play dough or draw one!



## Where can this take you in the future?

- Astronomer
- Engineer
- Mathematician
- Physician

## Working Scientifically Knowledge – Pattern Seeking

1. Planning different types of scientific enquires to answer questions, including recognising and controlling variables where necessary.
2. Reporting and presenting findings from enquires including conclusions, casual relationships and explanations of results, in oral and written forms such as displays and other presentations.

## Trips and visits

- We The Curious
- Fizz Pop Science
- What on Earth is that? (Workshop)