St John Fisher RC Primary School
Year 5 Knowledge Organiser – Autumn Two- Science

What we will be learning

I know:

Lesson 1
- Earth is one of the 8 planets in the solar system
- All planets orbit the sun
- The names of the 8 planets

Lesson 2
- There are four solid, rocky planets
- Some planets have gassy surfaces
- The earth takes 365 days to orbit the sun

Lesson 3
- How to create a model to show the position of the planets in the solar system and to show the different sizes of the planets

Lesson 4
- How to compare the mass of the different planets

Lesson 5
- Scientists throughout history have had different theories about the Solar System

Lesson 6

I know:
- What global warming is
- The impacts of global warming

Key Facts to Remember

- The Sun is the largest object in the Solar System and has the greatest gravitational pull. This keeps all the planets in orbit around the Sun.
- Earth takes about 365 days, or one year, to complete one full orbit.
- Earth has one moon, which takes approximately 27 days to orbit Earth.
- Earth rotates around its axis.
- The Sun, Earth and Moon are spherical bodies.
- It takes 24 hours for Earth to rotate around its axis and complete one full rotation. This is why one day is 24 hours long.
- It is day on the part of Earth that faces the Sun.
- It is night on the part of Earth that faces away from the Sun.

Key Vocabulary and Glossary

The Solar System	The solar system consists of the Sun and everything that orbits, or travels around, the Sun.
Planet	Planets are the largest objects in the solar system after the Sun.
Orbit	An orbit is a regular, repeating path that one object in space takes around another one.
Gravitational Pull	The force of attraction between objects due to gravity.
Axis	A straight line about which a body or a geometric figure rotates.
Spherical Bodies	Like a sphere in being round, or more or less round, in three dimensions.

Key Knowledge:

Earth's axis is an imaginary line that runs from the North to the South Pole.
Earth rotates once around its axis in a 24-hour period. Earth is the only planet known to support plant and animal life.
The four seasons occur on planet Earth because Earth's axis is tilted.

