KNOWLEDGE ORGANISER

Science	**Earth, Sun, Moon and Solar System**	*YEAR 5/6*

Cross curricular links

Mathematics:
measures (distance, time)
creating and using tables and diagrams to record data from investigations
recording results and findings by plotting graphs.

Geography: day and night, seasons, tilt of the Earth

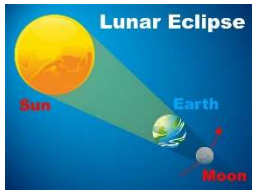
Working Scientifically

Children will ask questions and develop lines of enquiry using existing knowledge and understanding as a starting point.

Children will use a range of secondary sources to research scientific evidence that support or refutes ideas or arguments.

Children will begin to recognise which secondary source will be most useful when researching scientific ideas and questions.

Pictures/photos relevant to topic



Key skills

Children will compare, gather and record data in a variety of ways including diagrams, tables and graphs.

Children will recognise and control variables when planning and carrying out investigations.

Children will begin to separate opinion from fact.

Children will learn about the movement of the Moon relative to the Earth.

Children will learn about the Earth's rotation to explain day and night.

Children will learn about the apparent movement of the sun across the sky.

Key vocabulary

orbit – the path of an object around a particular point in space

rotation – the movement of an object in a circular motion around line called an axis

eclipse – when one object in space blocks another from view

moon cycle – how much of the moon we can see from Earth over a period of time.

day length – when the sun is visible

shadow – sunlight is blocked by an opaque object

tilt – the Earth leans to one side

seasons – in relation to the way sunlight falls on earth in the course of a year.

Useful information

Online resources
BBC Bitesize:
https://www.bbc.co.uk/bitesize/topics/z8c9q6f/articles/z846p4j#:~:text=There%20are%20eight%20phases%20of,repeats%20once%20every%2029.5%20days

Children n could keep a moon diary:

BBC Bitesize: Shadow, Sun and times of the day: https://www.bbc.co.uk/bitesize/clips/z2qxvcw