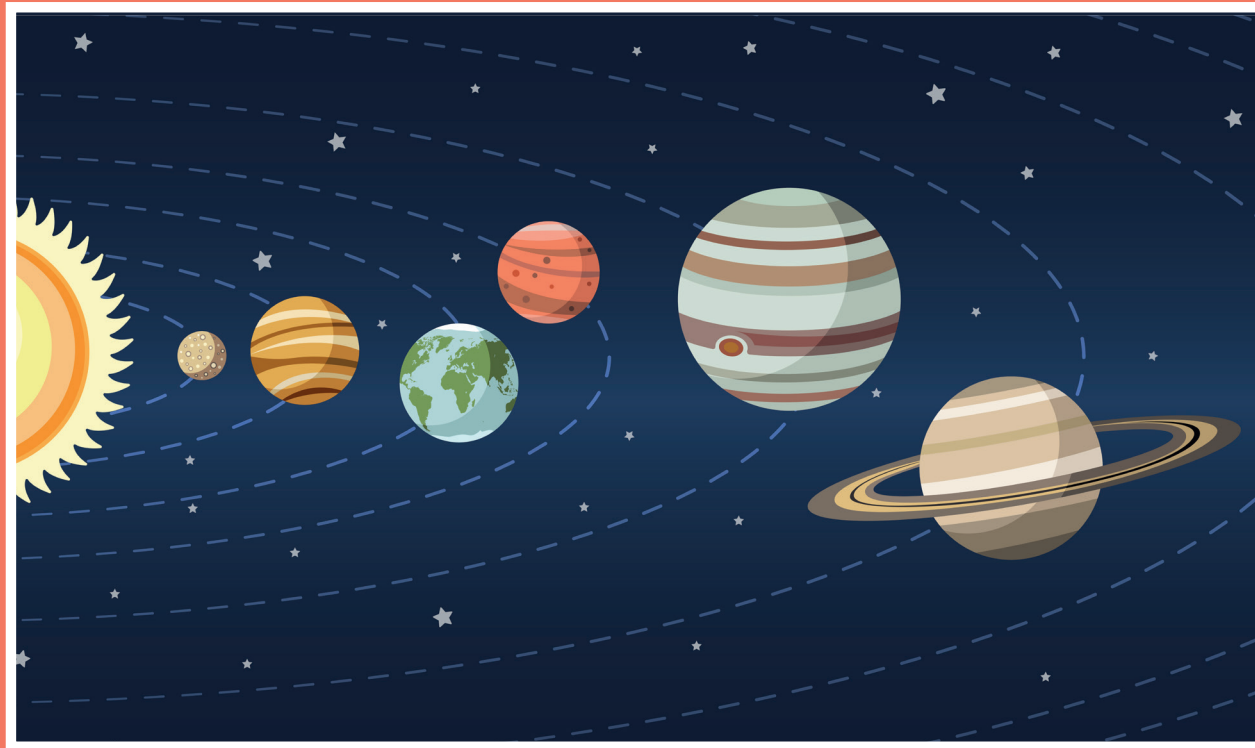


Earth and Space: Lesson 4

Make a Knowledge Organiser and Create a Leaflet on the Solar System

Science KS2 Year 5



Earth and Space: Lesson 4

Science

**Key Stage 2
Year 5**

Curriculum Link:

- reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations

The main objectives of this lesson:

- create a knowledge organiser with the children to recap their learning about earth and space
- model a presentation about the solar system, demonstrating:
 - title
 - sub-headings
 - the organisational device to be used
- ask the children to prepare their own presentation

The following pages of this PDF contain:

- A3 template for the knowledge organiser, for classroom display (you may have to print the two pages and stick them together)
- A4 template for the knowledge organiser, which children can stick into their books
- a series of the learning facts which you and the children can cut out and stick into the classroom knowledge organiser. Alternatively, the children may write their own

Once the organiser is complete, you can move onto the creation of a leaflet. Model the leaflet to the children, demonstrating:

- title
- sub-headings
- the organisational device to be used



PowerPoint Presentation

The accompanying PowerPoint supports this lesson by providing a visual prompt for the class activity.

The slides are as follows:

- Slides 1 and 2 introduce the lesson
- Slide 3 introduces the knowledge organiser, and reflects the template that the children will fill in.
- Slide 4 supplies the learning points for the organiser, which you may wish to use this at the end of the activity to check with the children.
- Slide 5 introduces a recap on what the children have learned so far, in preparation for the task of creating a leaflet on the solar system. This is an opportunity for classroom discussion ahead of some suggestions on the following slides.
- Slide 6 recaps two facts: the sun is at the centre of the solar system; planets travel around the sun.
- Slide 7 recaps two further facts: an orbit, Pluto the dwarf planet.
- Slide 8 recaps the planets in our solar system and the time of Earth's orbit around the sun.
- Slide 9 asks what else the children can remember. This is an opportunity for classroom discussion, you could add the facts to the Power-Point, or ask the children to note any facts in preparation for their leaflet.
- Slide 10 reminds the children to consider these points for their leaflet, which you can model before they begin: title, sub-headings, the organisational device to be used.
- Slide 11 is the closing and congratulatory slide.



Earth and Space: Know

The Solar System



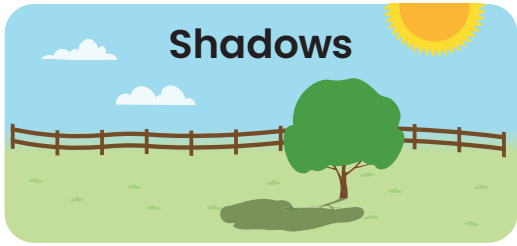
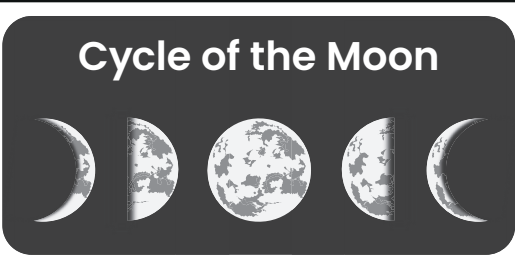
Planet Earth's Rotation



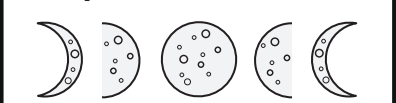
Day and Night



ledge Organiser Chart



Knowledge Organiser Chart

The Solar System 	Planet Earth's Rotation 	Day and Night 	Cycle of the Moon 	Shadows 

Knowledge Organiser Words



Earth, sun and moon are spherical.	The sun is a star. Earth is a planet.	Earth and other planets orbit the sun.	Earth takes 365¼ days to orbit the sun.
The moon is a satellite which orbits the earth.	The solar system is very big!	The length of other planets' orbits.	The sun appears to move around the Earth (but really the Earth is moving).
Earth's orbit makes seasons.	Earth's rotation makes day and night.	The Earth rotates towards the east.	Length of lunar month. Waning crescent moon.
Planet Earth rotates on its axis as it spins around the sun.	It takes Planet Earth 24 hours to complete one rotation.	Waxing crescent moon. First quarter half moon.	Waxing gibbous (3/4) moon.



Knowledge Organiser Words



Full moon.	Waning gibbous (3/4) moon.	Leap years.	A shadow is a dark area.
Waning half moon.		New Moon.	How do we make shadows.
A shadow is a two-dimensional silhouette.	A shadow is a reverse projection of an object which is blocking light.	Light cannot go through opaque objects.	Shadows move with the position of the sun.
A shadow covers all of the three-dimensional space behind an opaque object that is blocking the light.			

