## Earth, Sun and Moon research pack

Name:	Date:
<b>E</b>	L.O: I can explain key facts about the Sun, Earth and Moon
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Below are a selection of facts about the Sun, Earth and Moon. In your book create a simple table with three headings; **Sun**, **Earth** and **Moon**. Cut out the facts and stick them under the correct heading.

More than 100 times the size of the Earth.	-
A ball of rock that orbits the Earth.	-
Roughly a quarter of the size of Earth.	-
Roughly spherical and is over 15 million degrees at its core.	-
Largely made of gas.	
Orbits the Earth at about 3,000km an hour.	-
Over 40,000km at its circumference.	-
Travels at 100,000km through space.	-

Use the internet and/or information books to find out about the Earth, Sun and Moon and their position in relationship to each other. Use your research to help you write definitions for the following words:

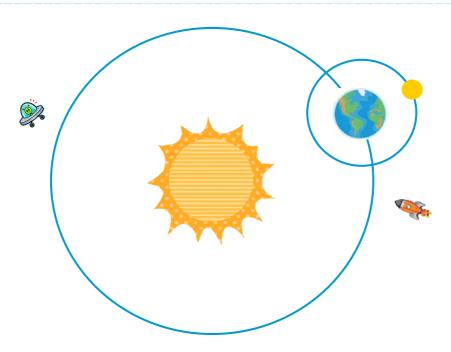
		Definition
Sun	solar flare	
	sunspot	
	corona	
Earth	atmosphere	
	land	
	ocean	
Moon	mountains	
	plains	
	crater	



## L.O: I can explain the relationships between the Sun, Earth and Moon

Copy this simple diagram into your book- use a whole page. Note the diagram is NOT to scale. Use the words below to help you label the diagram. Cut out the captions below and stick them around your diagram.

Sun	solar flare	sunspot	corona	orbit	Moon
Earth	atmosphere	land	ocean	plains	mountains



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change shape; it is	The Earth's tilt on its axis is what causes our seasons.	320,000 km away from the Earth.	The Moon is only held in place by the gravitational pull of the Earth.
shine. It reflects the	The corona of the Sun is made from helium and hydrogen.	Water covers 70% of the Earth, the other 30% is covered by land.	The Sun is 15 million degrees hot at its centre.



L.O: I can describe how the position of the Sun appears to change during the day, and how shadows change as this happens.

You are going to investigate how the Sun's light affects the Earth. You will place a stick outside in the Sun, and will measure its shadow at intervals during the day. You will need to decide how often to measure the shadows.

Equipment Write a list of the equipment you think we will need		
Results		
Time	Length of shadow (cm)	Diagram of position of stick and record of shadows (use same drawing and mark shadow each time)
Conclusion and Ex	planation	
•		ts the Sun, <b>explain</b> what has happened to your some sun that moves in the sky?