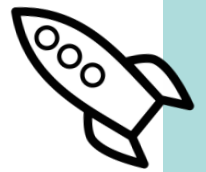




OUR SOLAR SYSTEM



What can you see during the day when you look into the sky?
What can you see during the night?

What if there's far more out there than what we can see with our naked eyes?

For many years, scientists have been working to discover and explore our solar system. Some of their most exciting developments include aerospace rockets and trips to the Moon.

1

Our **solar system** consists of our star, the Sun, and everything bound to it by gravity — the planets Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune, and dwarf planets such as Pluto.

Challenge: Can you memorise all of the planets in the order they are in?

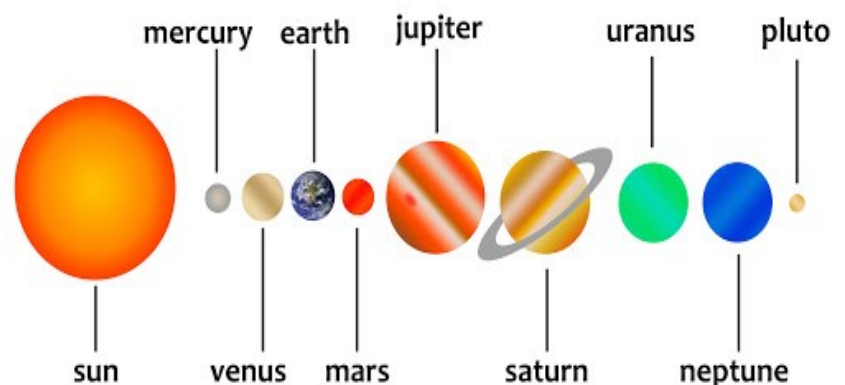


Image: <http://clipart-library.com/solar-system-clipart.html>

2

The **Sun** is a star at the centre of our Solar System. If you look straight to the Sun, you will notice that it's very bright. The Sun glows to give us light and keep us warm.

Challenge: Can you feel the heat and light of the sun when you step outside?

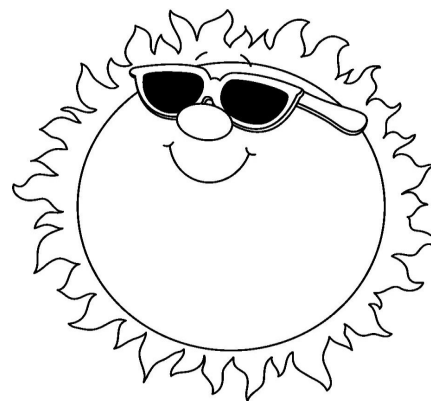


Image: <https://www.pinterest.co.uk/pin/46795217504172053/>

3

The **Earth** is the third planet from the Sun and our home planet. Scientists believe it was formed 4.5 billion years ago. The Earth is unique because it is the only planet where life is known to exist. The Earth is suitable for life because it has water on its surface and oxygen gas in its air. The Earth distance from the Sun is also ideal to keep us warm and safe.

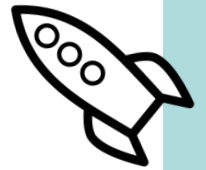
Challenge: The Earth's population is 7.53 billion. What is the UK's population?



Image: <https://webstockreview.net/explore/earth-clipart-transparent-background/>



OUR SOLAR SYSTEM



4

The **Moon** is the only place, beyond Earth, that humans have set foot. The moon is very hot during the day and cold during the night. It travels around the Earth in a circle called an orbit.

Depending on the Sun's position, some days we may see a full moon on the sky, whereas others we may only see half of it. There are 8 moon phases.

Challenge: Examine the 8 moon phases and decide what is tonight's moon phase. Keep an eye out for a full moon!

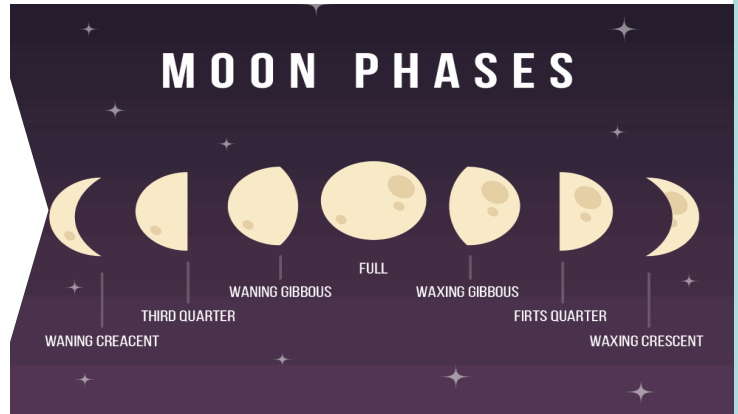


Image: <https://www.pinterest.co.uk/pin/40919431612265110/>

5

You must now invent **your own planet**. It can be any colour and shape you like! Use the space below to design it:

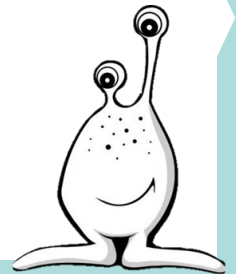


Image: <https://www.pinterest.co.uk/pin/281052832971135933/>

Tell us more about your planet!

Could humans live there? Or maybe a new form of **life**?

What would the **temperature** be like?

Could you find **water** or **food** there?

What is the **name** of your planet?