

Earth and beyond

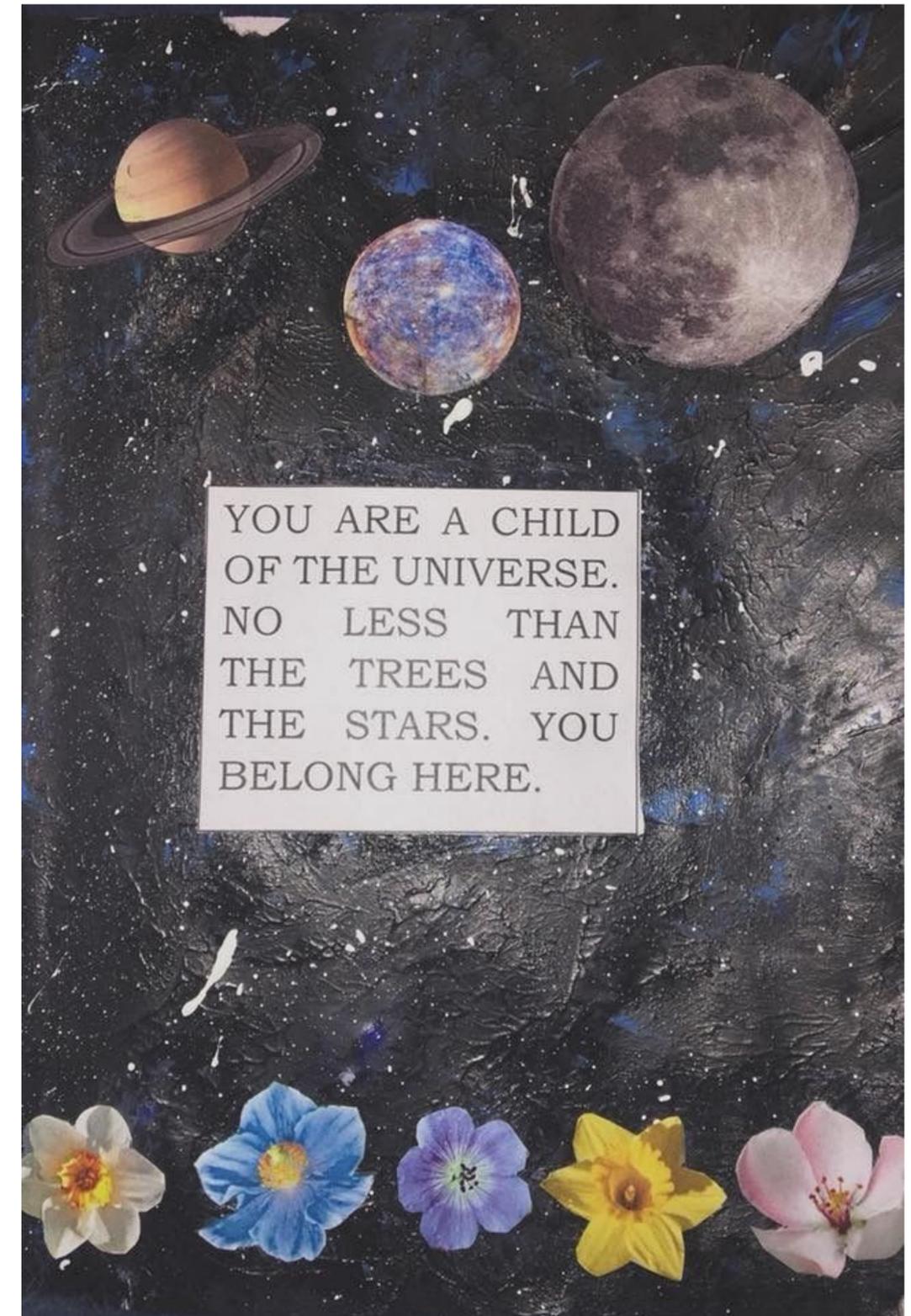
Science

This week in year 5 we are going to learn lots of interesting facts about the Solar System. We will cover topics such as:

1. *Distinctive features of the planets in the Solar System.*
2. *Motion of the moon.*
3. *Geocentric and Heliocentric models of the Solar System.*
4. *Day and night.*
5. *Constructing a shadow clock.*

Important!

*Your work will be bind together to make a **class encyclopaedia** about the Solar System so make sure to take very good shots of your work when submitting it to us.*



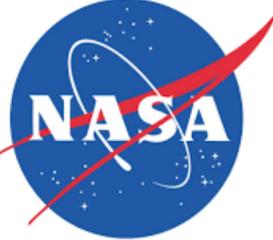


Science

Earth and beyond

I can describe the distinctive features of the Sun, Earth, Moon and other planets.

Monday 8th June 2020

Latest  news!

https://www.youtube.com/watch?v=K_ljoAdYlco

On Saturday 30th May 2020 SpaceX and NASA launched their historic first crewed mission to the International Space Station (ISS) from Cape Canaveral, Florida. The astronauts who are on board of the rocket are Doug Hurley and Bob Behnken.



SpaceX, is an American **aerospace manufacturer** and **space transportation** services. It was founded in 2002 by **Elon Musk** with the goal of reducing space transportation costs to enable the **colonization of Mars**.



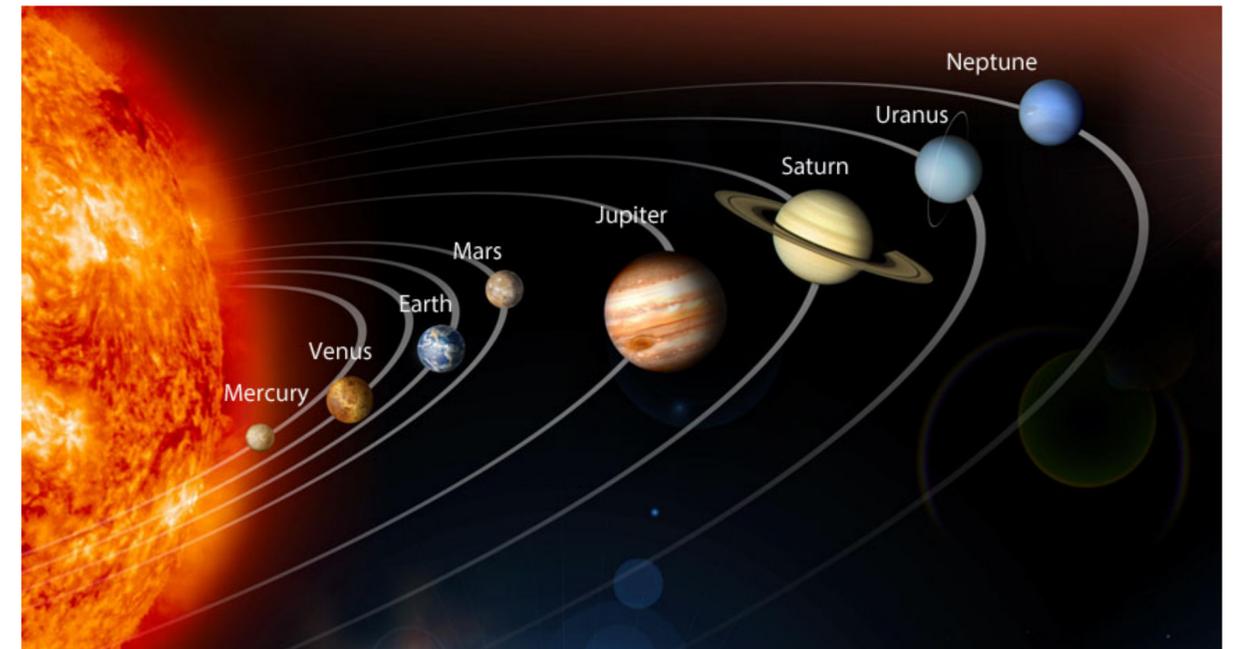
As the co-founder and CEO of **Tesla**, Elon Musk leads all product design, engineering and global manufacturing of the company's electric vehicles.

Our Solar System

Our Solar System consists of the Sun, eight planets, their moons and many smaller bodies called asteroids and comets. The eight planets are Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune. Mercury is closest to the Sun. Neptune is the farthest.

Planets, asteroids, and comets orbit our Sun. They travel around our Sun in a flattened circle called an ellipse. It takes the Earth one year to go around the Sun. Mercury goes around the Sun in only 88 days. It takes Pluto, the most famous dwarf planet, 248 years to make one trip around the Sun.

Moons orbit planets. Right now, Jupiter has the most named moons—50. Mercury and Venus don't have any moons. Earth has one. It is the brightest object in our night sky. The Sun, of course, is the brightest object in our daytime sky. It lights up the moon, planets, comets, and asteroids.

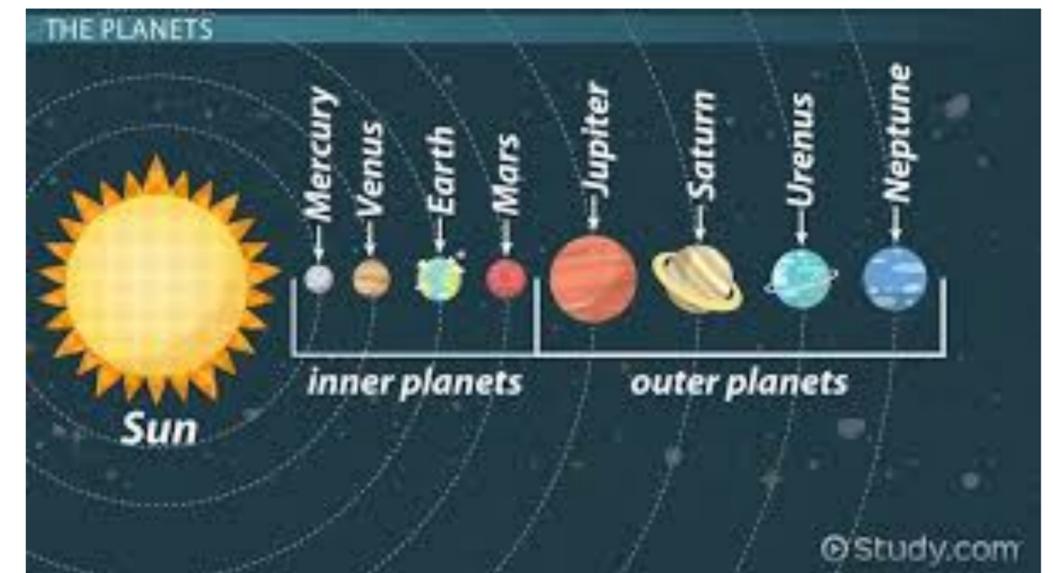


<https://www.youtube.com/watch?v=libKVRa01L8>

The planets

Our Solar System formed about 4.6 billion years ago from a large cloud of gas and dust called a nebula. At the centre is our closest star, the Sun. Orbiting around the Sun are eight planets. In order from the closest to the Sun they are

Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune



The planets can be placed into two distinct groups. The four planets closest to the Sun are small and rocky and are often referred to as the inner, or terrestrial, planets. The outer four planets are much larger and very cold. These are the giant planets. Jupiter and Saturn are known as the gas giants. Uranus and Neptune are referred to as the ice giants.

Rings



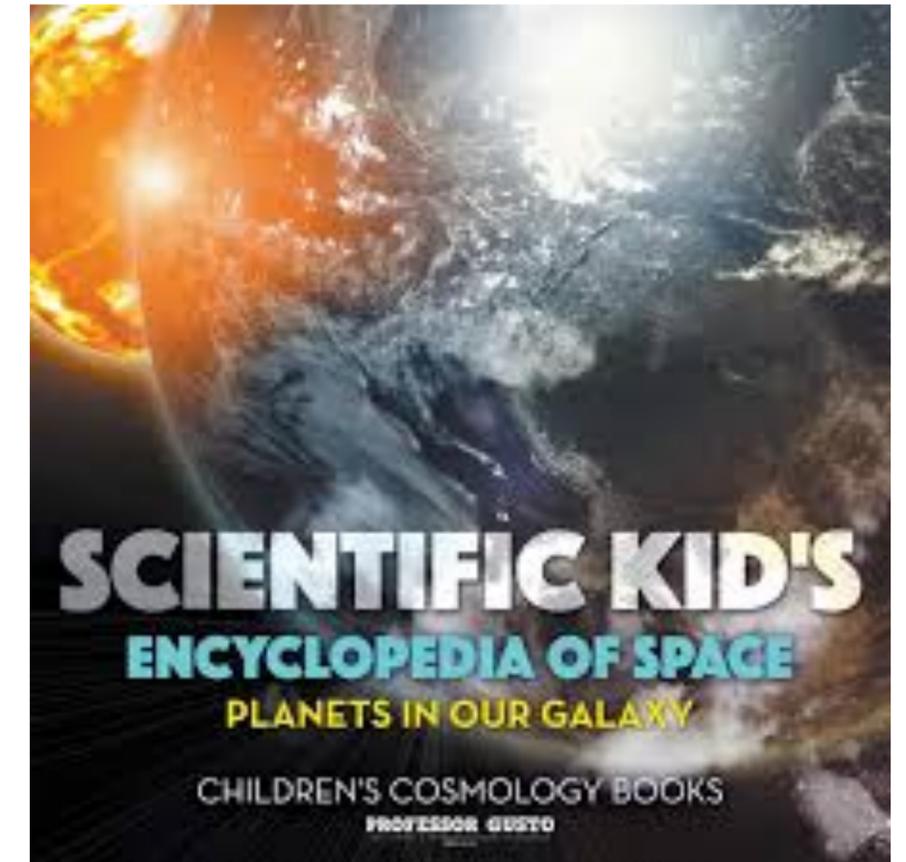
All of the giant planets have rings. The most spectacular are Saturn's rings which are the largest in the Solar System. Saturn's rings are made up of billions of small pieces of water ice with traces of rocky material. These pieces range in size from micrometres* to metres across. As the rings are mostly made of ice they reflect the Sun's light and are therefore bright and easy to observe.

Task - to conduct a small research about a planet in the Solar system.

Choose **one** of the eight planets to do a research on. Gather as much information as you can! Your research needs to provide information for people who don't know anything about the planets. Remember to illustrate your text/page. You can also type it and email to us as an attachment.

Use the following links to aid your research and ... have fun 👍

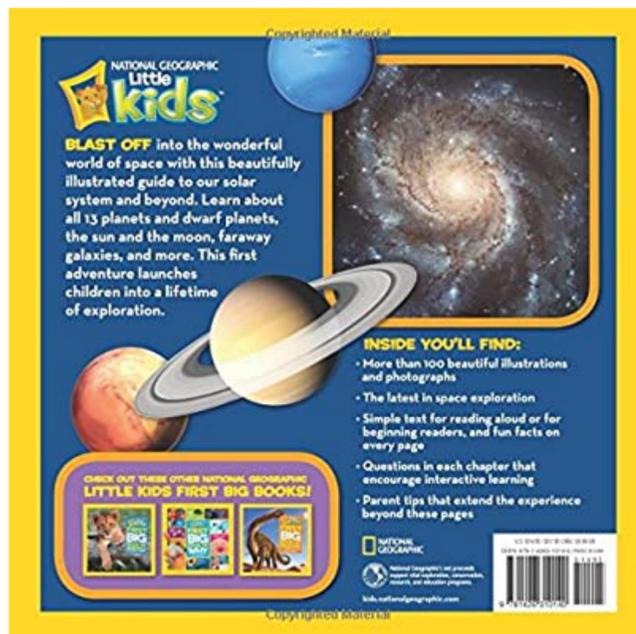
<https://solarsystem.nasa.gov/resources/490/our-solar-system/>



Questions to consider:

- What colour is the planet?
- For planets, how many moons does the planet have?
- For planets, does the planet have any rings?
- Does the planet have any other distinctive features?
- You can also write down how long a day lasts on the planet, what the average temperature of the planet or object is, whether the planet is larger or smaller than the Earth etc.

Possible layout of your page...



<https://www.raf-benson.oxon.sch.uk/the-final-frontier/>