

# Learn about SPACE

## WHAT IS A SATELLITE ?

A satellite is an object in orbit around a planet. It can be natural (like the moon that rotates around the Earth) or artificial. The latter ones are placed in orbit on purpose – they are used for observing the weather, for GPS or even for studying other planets. The International Space Station (ISS) is also a satellite!

## WHY CAN'T WE SEE STARS DURING THE DAY?

The stars are always in the sky, but we don't see them because the light of the Sun is stronger than theirs and the stars shine less than the Sun.

It takes 24 hours for the Earth to turn around itself (one day) and 365 days to turn around the Sun (one year).

## WHAT IS A SHOOTING STAR ?



A shooting star is a luminous phenomenon that occurs when an object called a meteoroid enters the atmosphere.

It is a small object, moving in space at a speed that can reach up to 42 km/s when its orbit crosses the orbit of the Earth.

## WHAT DO ASTRONAUTS EAT?

Astronauts eat powdered food in small packets. To prepare a meal, they add a bit of water and heat it in the microwave. They use magnetic knives and forks, and drink through a straw. Otherwise, everything would float!

## PLANETS IN THE SOLAR SYSTEM

There are 8 planets in our Solar System: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune (from the closest to the furthest from the Sun).

On Earth, we have all elements, necessary to live – water, air and light. We don't find this on all planets!

## HOW DOES THE EARTH TURN?

This movement is due to a force that we call gravity. This force attracts objects. The force of the Sun attracts the Earth towards itself – so the Earth turns around the Sun. But at the same time, the force of the space attracts it in the opposite way – so the Earth turns around itself.

## WHY IS THERE DAY AND NIGHT?

The Sun gives us light during the day, but only one side of the Earth gets it at the same time. So, on one side of the Earth it is day, and on the other one – night. As the Earth turns around itself, the illuminated side changes gradually.

## Love space?

Discover our space-themed personalisation options for labels and our DIY ideas on [Petit-Fernand.co.uk](http://Petit-Fernand.co.uk)!

  
It's Charlie's  
William's felt tips  
Jacob Wood



OUR SPACE ROCKET BIRTHDAY INVITATIONS



OUR SPACE ROCKET PINATA



Grab your colouring pencils!



MERCURY



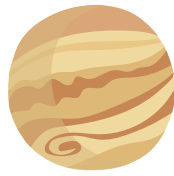
VENUS



EARTH



MARS



JUPITER



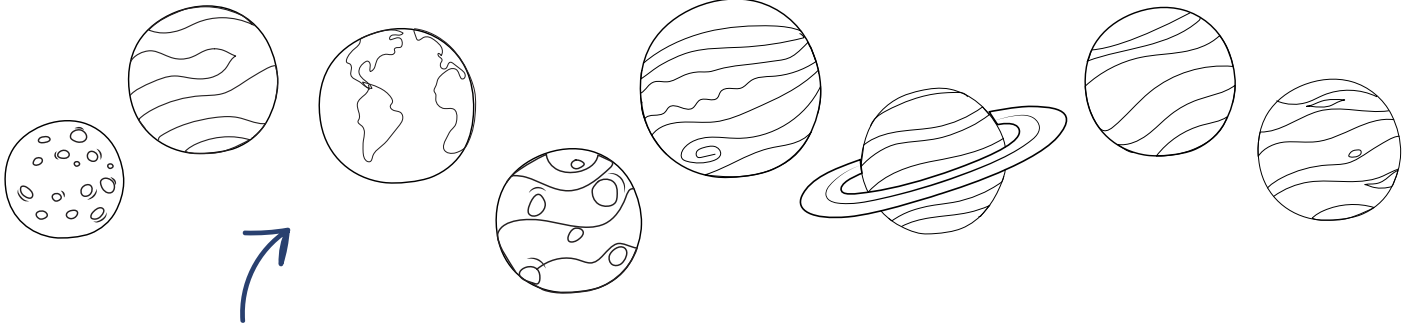
SATURN



URANUS



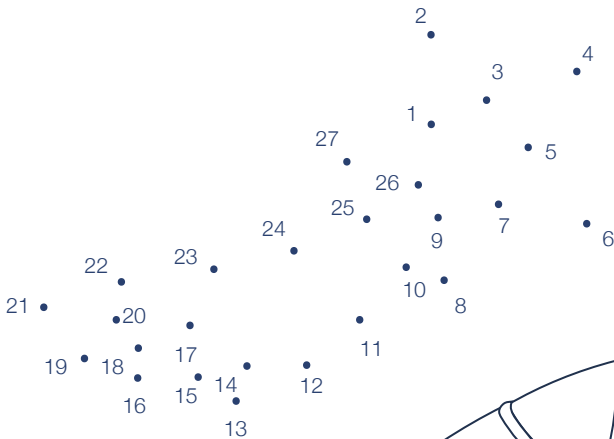
NEPTUNE



COLOUR THE PLANETS!

Mnemonic trick to remember the planets' order

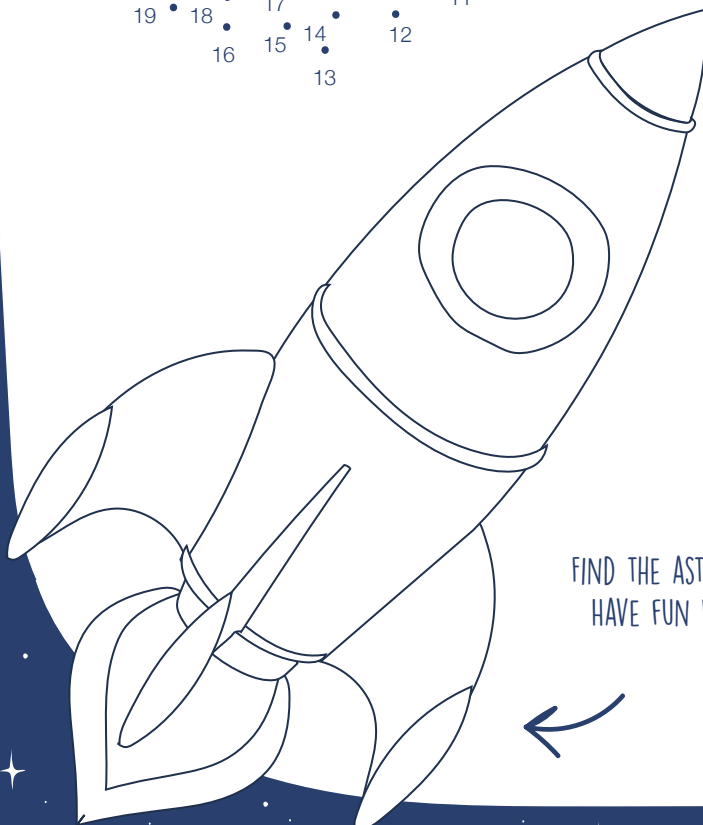
MY VERY EXCELLENT MOTHER JUST SERVED US NOODLES !



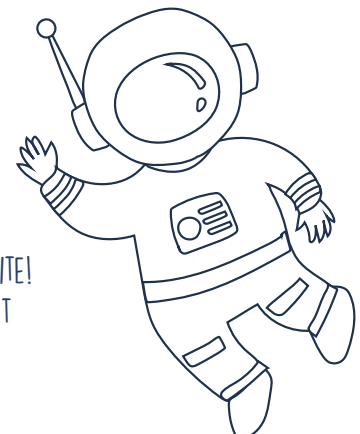
CONNECT THE DOTS!

Did you know ?

France was the first country to send a cat into space, called Felicette in 1963!



FIND THE ASTRONAUT ICON ON OUR WEBSITE!  
HAVE FUN BY COLOURING THE ASTRONAUT  
AND THE ROCKET!




# Guess which planet!

Cut out each little card and divide them in two categories:  
the planets and the information cards.

As a new little astronaut, can you find which planet matches  
the information cards thanks to the little hints?




*Mercury*




ROCKY PLANET  
Closest to the Sun  
Temperature: + 430°C  
Diameter: 4 880 km

*Venus*




ROCKY PLANET  
2nd closest to the Sun  
Temperature: + 460°C  
Diameter: 12 104 km

*Earth*




ROCKY PLANET  
3rd closest to the Sun  
Temperature: -88°C à 58°C  
Diameter: 12 755 km

*Mars*



ROCKY PLANET  
4th closest to the Sun  
Temperature: -73°C à 0°C  
Diameter: 6 794 km

*Jupiter*



GAS GIANT  
5th closest to the Sun  
Temperature: -140°C à 0°C  
Diameter: 142 984 km

*Saturn*



GAS GIANT  
6th closest to the Sun  
Temperature: -140°C  
Diameter: 120 536 km

*Uranus*



ICE GIANT  
7th closest to the Sun  
Temperature: -210°C  
Diameter: 51 118 km

*Neptune*



ICE GIANT  
Farthest from the Sun  
Temperature: -220°C  
Diameter: 48 200 km

- 1 I am also known as the Blue Planet!
- 2 I turn around the Sun in 365 days, 5 hours and 46 minutes!
- 3 Don't be jealous, but I have a natural satellite, known by everyone - the Moon!

- 1 I have 5 rings around me, but they are very discreet so we can't easily see them!
- 2 I turn around the Sun in 165 years!
- 3 I am the furthest planet from the Sun, so I am very cold!

- 1 I turn around the sun in 87 years!
- 2 I have 27 natural satellites!
- 3 Only a little bit of light reaches me, so I am very hard to find!
- 4 I am one of the furthest planets from the Sun.

- 1 I am also called the Red Planet!
- 2 I turn around the Sun in 687 days
- 3 I have two satellites – Phobos and Deimos! These two natural satellites look like potatoes!

- 1 I am the biggest planet of the Solar System!
- 2 I have also a ring but a very discreet one, so it is almost invisible!
- 3 I turn around the Sun in 11 and a half years and I have 63 satellites!

- 1 I have a ring that can be seen with a telescope, as well as natural mini satellites that create and destroy themselves!
- 2 I am the 2nd biggest planet in the Solar System!
- 3 I turn around the sun in 29 and a half years!

- 1 During the day, it is very hot and during the night – very cold, because I don't have an atmosphere and therefore, no greenhouse effect to keep the warmth!
- 2 I am the smallest planet of the Solar System!
- 3 I am the closest planet to the Sun!

- 1 Sometimes I am called the Morning Star and the Evening Star
- 2 I am very easy to see from the Earth because my light is very intense
- 3 I am 3rd the most luminous object after Mr Sun and Mrs Moon!