

Earth and Space



Presentation Samples

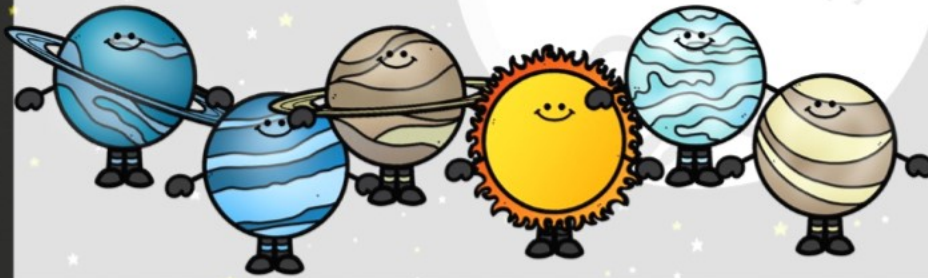


OUTCOMES

*Describe and compare/contrast major characteristics and features of the planets.
Compare positions of bodies in the solar system.*

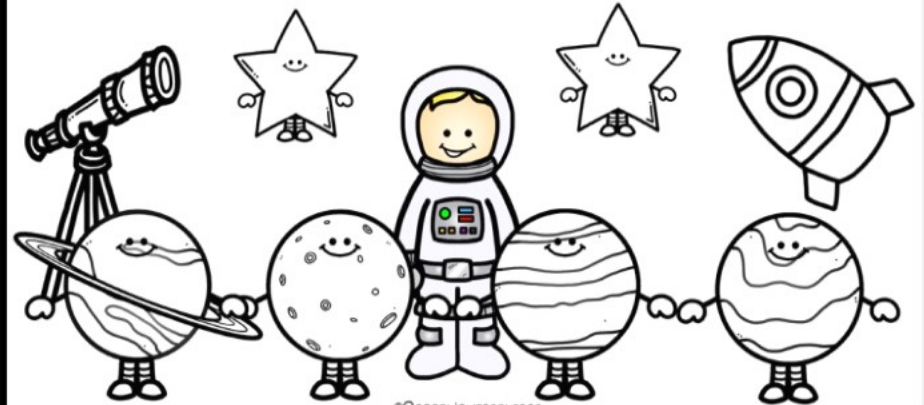
I will be a successful learner when I can:

- Describe and compare/contrast major characteristics and features of the planets.
- Compare positions of bodies in the solar system.



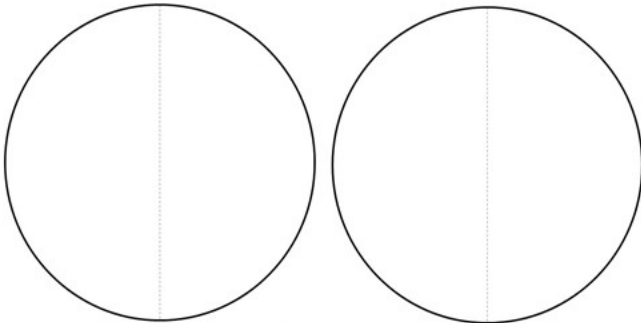
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Under this definition, Pluto is NOT a planet, but has been deemed a dwarf planet because it has not yet cleared its orbit. This definition is under discussion, particularly by members of the planetary science community, and it may yet be further refined.



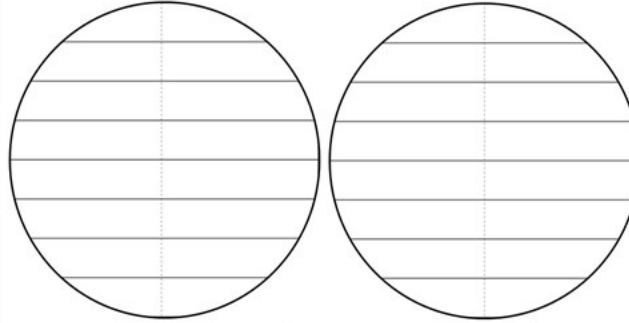
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Fold along the dotted lines when information has been completed for each of the planets.
Glue the 4 pieces on the inside to form a globe, and include a piece of string in order to hang the planet for display.
Use the blank circles to rewrite information and write interesting facts about each of the planets.



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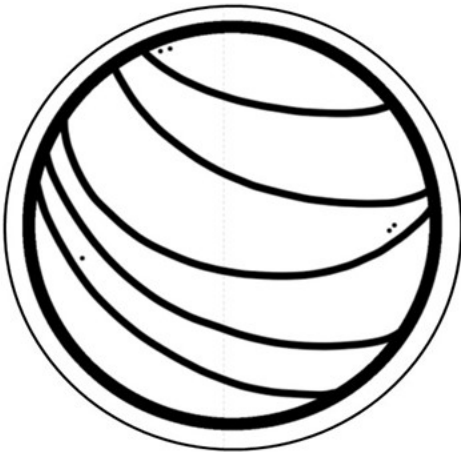
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Venus

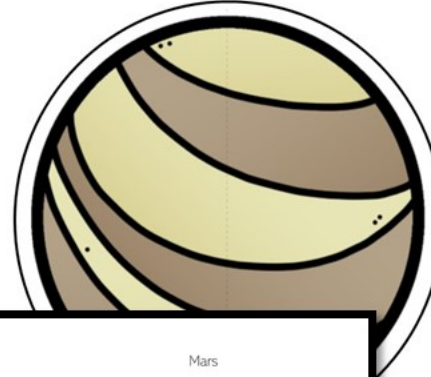


Earth



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Venus



Earth



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Jupiter



Mars



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Jupiter



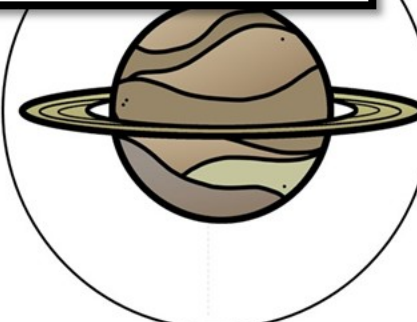
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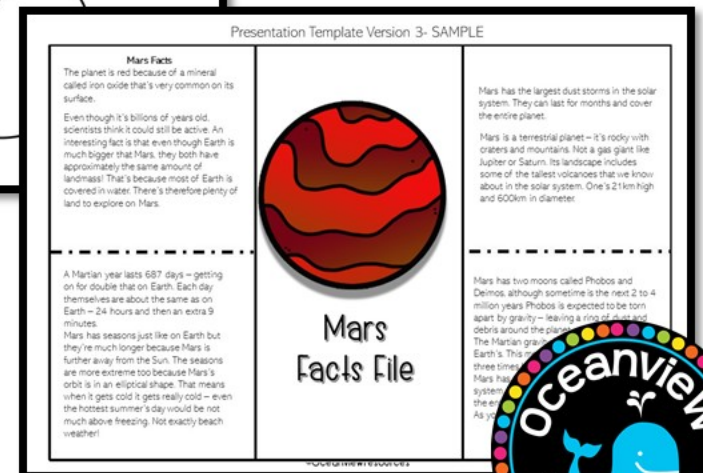
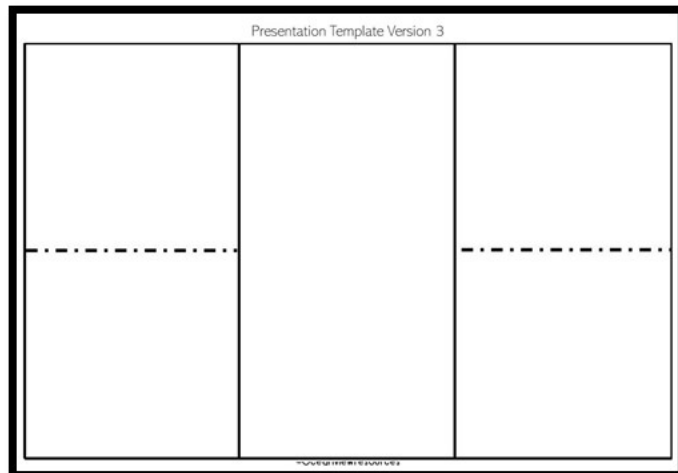
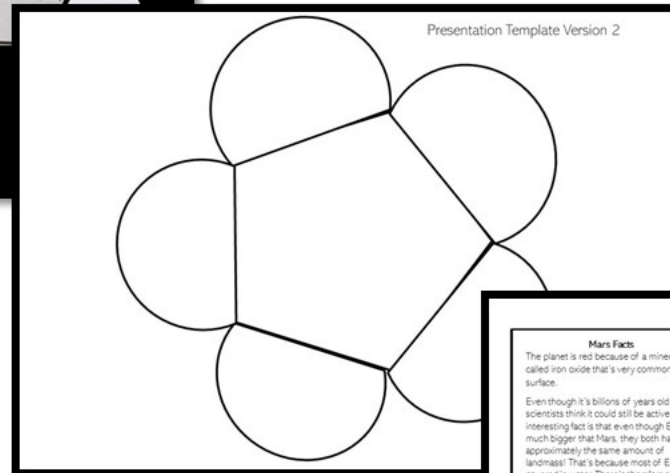
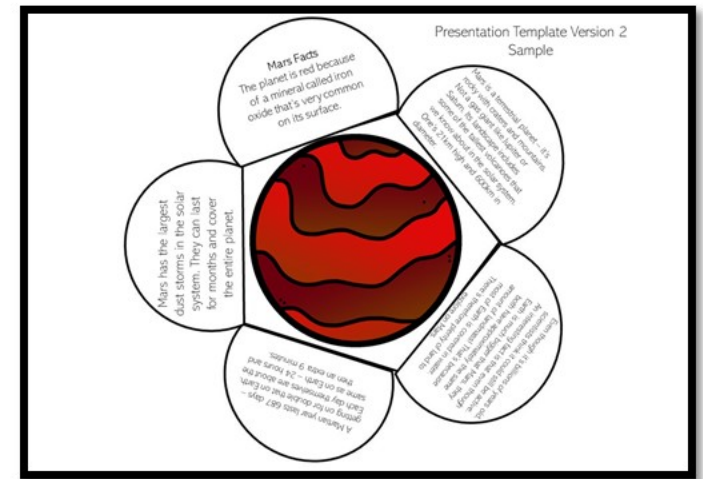


Neptune with Rings



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Mars Facts File



Even though it's billions of years old, scientists think it could still be active. An interesting fact is that even though Earth is much bigger than Mars, they both have approximately the same amount of landmass! That's because most of Earth is covered in water. There's therefore plenty of land to explore on Mars.

Mars is a terrestrial planet – it's rocky with craters and mountains. Not a gas giant like Jupiter or Saturn. Its landscape includes some of the tallest volcanoes that we know about in the solar system. One's 21 km high and 600 km in diameter.

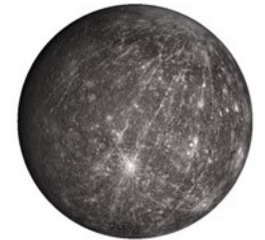
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MERCURY

Mercury is the closest planet to the Sun and due to its proximity, it is not easily seen except during twilight.

For every two orbits of the Sun, Mercury completes three rotations about its axis and up until 1965 it was thought that the same side of Mercury constantly faced the Sun.

Thirteen times a century Mercury can be observed from the Earth passing across the face of the Sun in an event called a transit, the next will occur on the 13th November 2032



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MERCURY

Make a facts chart about Mercury.

Locate information on: its location, size, as well as any other information you think is important.

These might include:

Who is your planet named after?

Is it an inner or outer planet?

Distance from the Sun (How many kilometres?)

Distance from Earth (How many kilometres?)

Diameter (What is the distance across is your planet?)

Period of revolution (How long is one year on your planet in Earth years?)

Rotation period (One day on your planet equals how many hours/days on Earth?)

[Find out how old \(in earth years\) you would be on this planet.](#)

Moons (How many? What are their names?)

Atmosphere (What gases are in the atmosphere?)

Temperature (How hot or cold is it?)

Daytime: _____

Night-time: _____

Composition (What is your planet made of?)

Name the most common elements and molecules in the planet's core and in the planet's atmosphere. What is the form of the matter (solid, liquid, or gas?)

[How much do you weigh on your planet?](#)

Create a Venn Diagram about your planet and Earth- Google Doc

You can use SWAY, Haiku Deck, Google Slides, etc to document this.

MERCURY- Extension 1

- **Design a questionnaire** about Mercury. Questions should be about its location, size, neighbouring planets, as well as any other information you think is important.

- **Invent a spacesuit** that meets the basic requirements for living things on your particular planet and is capable of enduring the trip.

- **Create a pictorial timeline** of how space suits have evolved over time.

MERCURY- Extension 2

- Tourists love taking home souvenirs from Mercury that reminds them of their trip away. Invent a game that tourists could buy to take home that includes facts about Mercury.

- **Research a natural disaster** that might occur on Mercury. Then plan an 'Emergency Pamphlet' that The type of natural potential threats when it occurs.



PLANET RESEARCH

Distance From
The Sun

Average Temperature

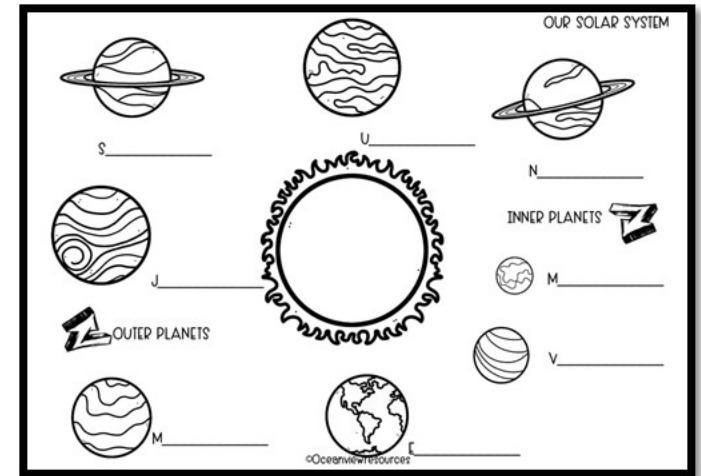
Planet Name

What it looks like

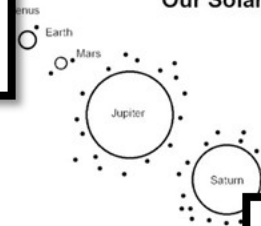
Fun Facts

Number Of Moons

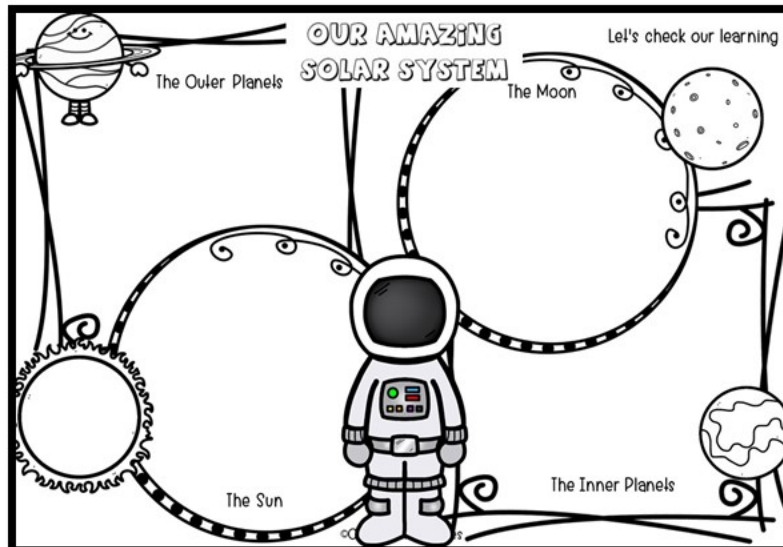
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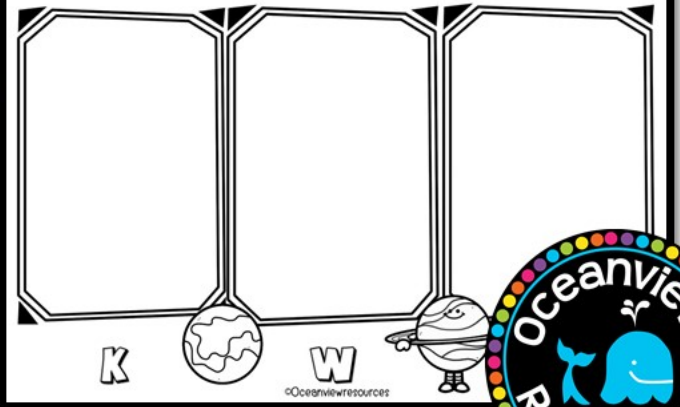
The Planets and Moons of Our Solar System

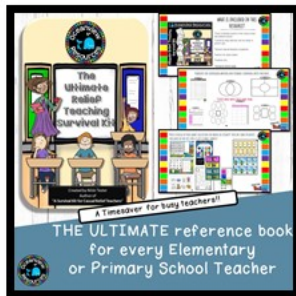


Our solar system has one Sun and nine planets.
Some of the planets have moons and some do not.
Some of the planets have many moons and some
have only a few.

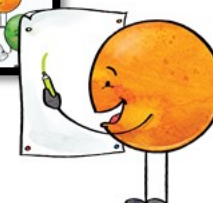
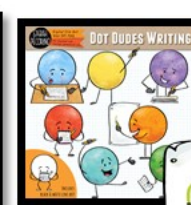
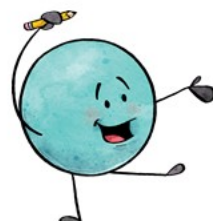


OUR AMAZING SOLAR SYSTEM





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