

# Mercury



- Planet Closest to the sun
- A year on Mercury is 88 days, yet a Mercury day is 176 Earth days.
- A day on Mercury lasts 59 Earth days.
- Mercury is the smallest planet in our solar system.
- It has a solid surface that is covered with craters.
- It has a thin atmosphere.
- It does not have any moons.
- The daytime temperature on Mercury can reach over 400 Degrees Celsius but at night without an atmosphere to hold the heat in, the temperatures plummet, dropping to -180 Degrees Celsius.
- If you lived on Mercury, you'd have a birthday every three months!

# Venus



- Venus is the hottest planet.
- It has a thick atmosphere full of the greenhouse gas carbon dioxide and clouds made of sulfuric acid that trap heat on the planet's surface.
- Venus has mountains and volcanoes.
- Venus rotates the opposite direction of Earth.
- The sun rises in the West and sets in the East.
- Venus does not have any moons.
- The clouds are so thick very little light ever reaches the surface of the planet.
- A day on Venus lasts 243 Earth days!

# Earth



- Water covers 70% of Earth's surface
- The atmosphere is a mixture of nitrogen (78%), oxygen (21%), and other gases (1%) that surrounds Earth.
- The atmosphere protects Earth from incoming meteoroids, most of which break up in Earth's atmosphere before they can strike the surface as meteorites.
- Earth is the only planet in our solar system that we know supports life.
- A day on Earth lasts 24 hours.
- Earth is the only planet to have just one moon.

# Mars



- Mars is a cold desert world.
- Mars is half the size of Earth.
- Mars is red because of rusty iron in the ground.
- Like Earth, Mars has seasons, polar ice caps, volcanoes, canyons, and weather.
- Mars has a thin atmosphere.
- One day on Mars lasts 24.6 hours.
- One year on Mars is 687 Earth days.
- A summer day on Mars may get up to 70 degrees F near the equator, but at night the temperature can plummet to about minus 100 degrees F.

# Jupiter



- Jupiter is the biggest planet in our solar system.
- It has big storms like the Great Red Spot, which has been going for hundreds of years.
- Jupiter is a gas giant which means it has no solid surface.
- It may have a solid inner core about the size of Earth.
- 1,300 Earths could fit inside Jupiter.
- Jupiter is made mostly of hydrogen and helium.
- One day in Jupiter lasts just 10 hours.
- Jupiter has rings but they are very hard to see.
- Jupiter has 50 confirmed moons.
- You would weigh 2 1/2 times as much on Jupiter.

# Saturn



- Saturn has rings made of chunks of rock and ice.
- Saturn is mostly made of hydrogen and helium.
- Saturn has seven main rings with spaces between them.
- One day on Saturn lasts 10.7 hours.
- One year on Saturn is the same as 29.5 Earth years.
- Saturn has 53 moons.
- Saturn is the second largest planet in our solar system.
- 764 Earths could fit inside Saturn.
- Saturn's temperature is believed to be about -270 degrees Fahrenheit.

# Uranus



- Uranus is made of water, methane, and ammonia fluids above a small rocky center.
- The methane makes Uranus blue.
- Like Venus, Uranus rotates in the opposite direction as most other planets.
- Uranus rotates on its side.
- Uranus is surrounded by 13 rings.
- One day on Uranus lasts a little over 17 hours.
- One year on Uranus is the same as 84 years on Earth.
- Uranus has 27 moons.
- 63 Earths could fit in Uranus.
- Near the cloud tops, the temperature of Uranus is -357 degrees Fahrenheit.

# Neptune



- Neptune is dark, cold, and very windy.
- Its atmosphere is made of hydrogen, helium, and methane.
- The methane gives Neptune the same blue color as Uranus.
- Neptune has 6 rings but they are very hard to see.
- Neptune has a thick atmosphere.
- Neptune is the coldest planet in our solar system.
- Neptune has 13 moons.
- Neptune's temperature gets down to -360.4.
- 58 Earths could fit in Neptune.
- One day on Neptune is 16 hours.
- One year on Neptune is 164.79 Earth years.





## Mercury



Mercury is the planet closest to the sun. It has a solid surface that is covered with craters and a thin atmosphere. Mercury does not have any moons. Mercury's temperatures can range from 800 degrees Fahrenheit during the day to -280 degrees Fahrenheit during the night. A day on Mercury lasts 59 Earth days and a year lasts 176 Earth days.

Based on these facts about the planet Mercury, what would it take for you to live there? What would be most difficult? What would be most fun? What would your home look like? Draw me a picture to show what life would be like.



## Venus



Venus is the hottest planet. It has a thick atmosphere full of greenhouse gas and clouds made of sulfuric acid that trap heat on the planet's surface. Venus has mountains and active volcanoes. Venus rotates the opposite direction of Earth. The Sun rises in the West and sets in the East. The clouds are so thick very little light every reaches the surface of the planet. A day on Venus lasts 243 days.

Based on these facts about the planet Venus, what would it take for you to live there? What would be most difficult? What would be most fun? What would your home look like? Draw me a picture to show me what it would look like.

## Mars



Mars is a cold desert world that is half the size of Earth. Mars is red because of rusty iron in the ground and has seasons, polar ice caps, volcanoes, and weather. Mars has a thin atmosphere. One day on Mars lasts 24.6 hours and one year on Mars is 687 Earth days. A summer day on Mars may get up to 70 degrees Fahrenheit near the equator, but at night the temperature can go to -100 degrees Fahrenheit.

Based on these facts about the planet Mars, what would it take for you to live there? What would be most difficult? What would be most fun? What would your home look like?

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## Mars



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Based on these facts about the planet Mars, what would it take for you to live there? What would be most difficult? What would be most fun? What would your home look like? Draw me a picture to show me what it would look like.



## Jupiter



Jupiter is the biggest planet in our solar system. It has big storms like the Great Red Spot, which has been going for hundreds of years. Jupiter is a gas giant which means it has no solid surface. It may have a solid inner core about the size of Earth. Jupiter is made mostly of hydrogen and helium.

One day in Jupiter lasts just 10 hours and you would weigh 2 1/2 times as much on Jupiter.

Based on these facts about the planet Jupiter, what would it take for you to live there? What would be most difficult? What would be most fun? What would your home look like? Draw me a picture to show me what it would look like.





# Saturn

Name\_\_\_\_\_



Saturn is made mostly of hydrogen and helium. Saturn has 7 rings made of chunks of rocks and ice. One day on Saturn lasts 10.7 hours and one year on Saturn lasts 29.5 Earth Years. Saturn has 59 moons and is the largest planet in our solar system. Saturn's temperature is believed to be about -270 degrees Fahrenheit.

Based on these facts about the planet Saturn, what would it take for you to live there? What would be most difficult? What would be most fun? What would your home look like? Draw me a picture to show me what it would look like.





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Based on these facts about the planet Uranus, what would it take for you to live there? What would be most difficult? What would be most fun? What would your home look like? Draw me a picture to show me what it would look like.

Name\_\_\_\_\_

## Neptune



Neptune has an atmosphere made of hydrogen, helium, and methane. Neptune has a thick atmosphere and the methane in the atmosphere gives it the blue color it has. Neptune is the coldest planet in our solar system. Neptune has 13 moons. One day on Neptune is 16 hours and a year on Neptune lasts 164.79 Earth years.

Based on these facts about the planet Neptune, what would it take for you to live there? What would be most difficult? What would be most fun? What would your home look like? Draw me a picture to show me what it would look like.

