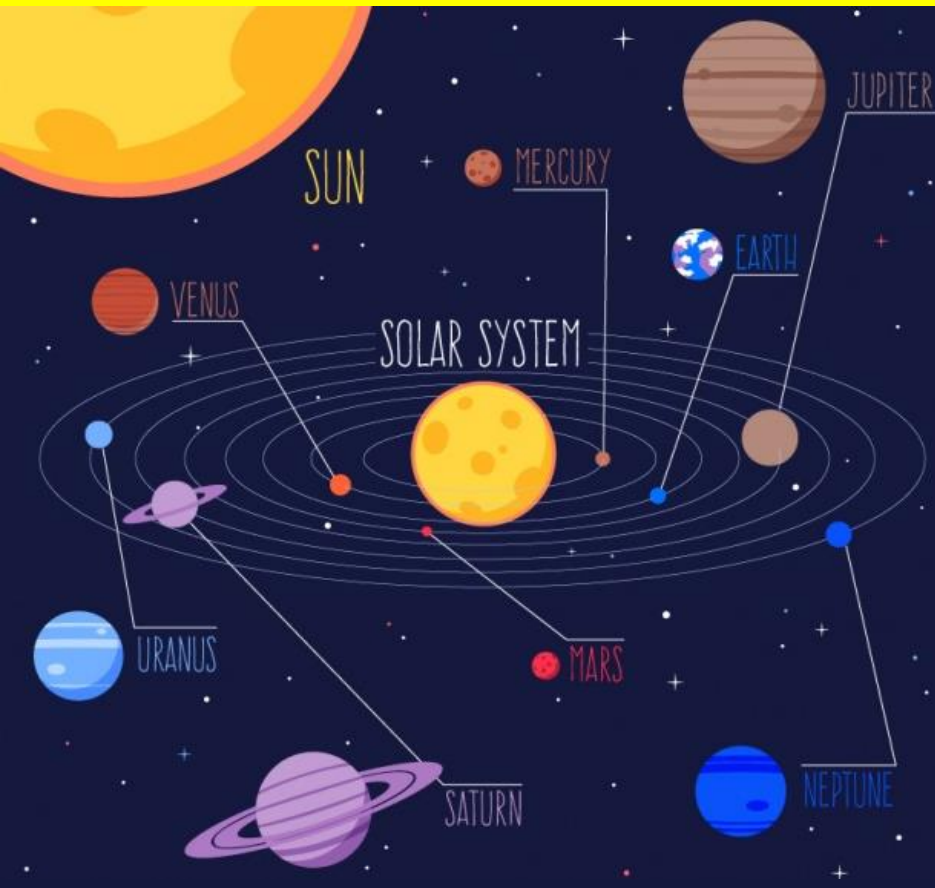


Middle School Physical Science

Our Solar System – Grade 6-7



- Our Solar System
- The Sun
- The Inner Planets
- The Outer Planets
- Why was Pluto demoted?
- Observing Stars and Planets
- The Moon

TeachWithFergy

Preview File

Please enjoy this preview of your Student Version of the lesson. I've created this PDF for ease of viewing and to decrease the file size but of course, your lesson will be in PowerPoint format.

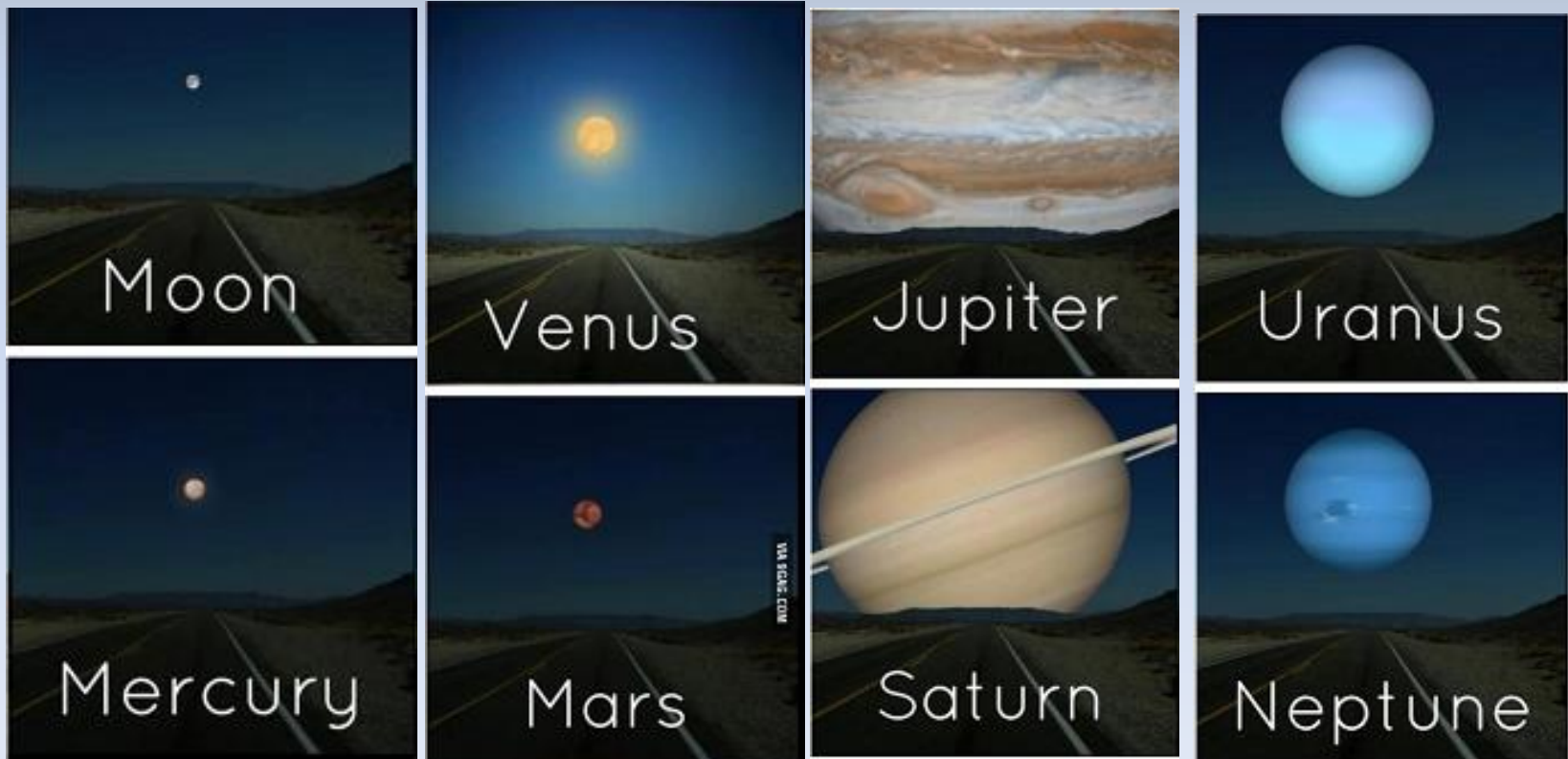
- Some slides appear blank because they have been removed.

- Student versions have portions of the text removed which is given in the teacher version and appear as

- Other slides may have on them, this represents writing that has been removed.

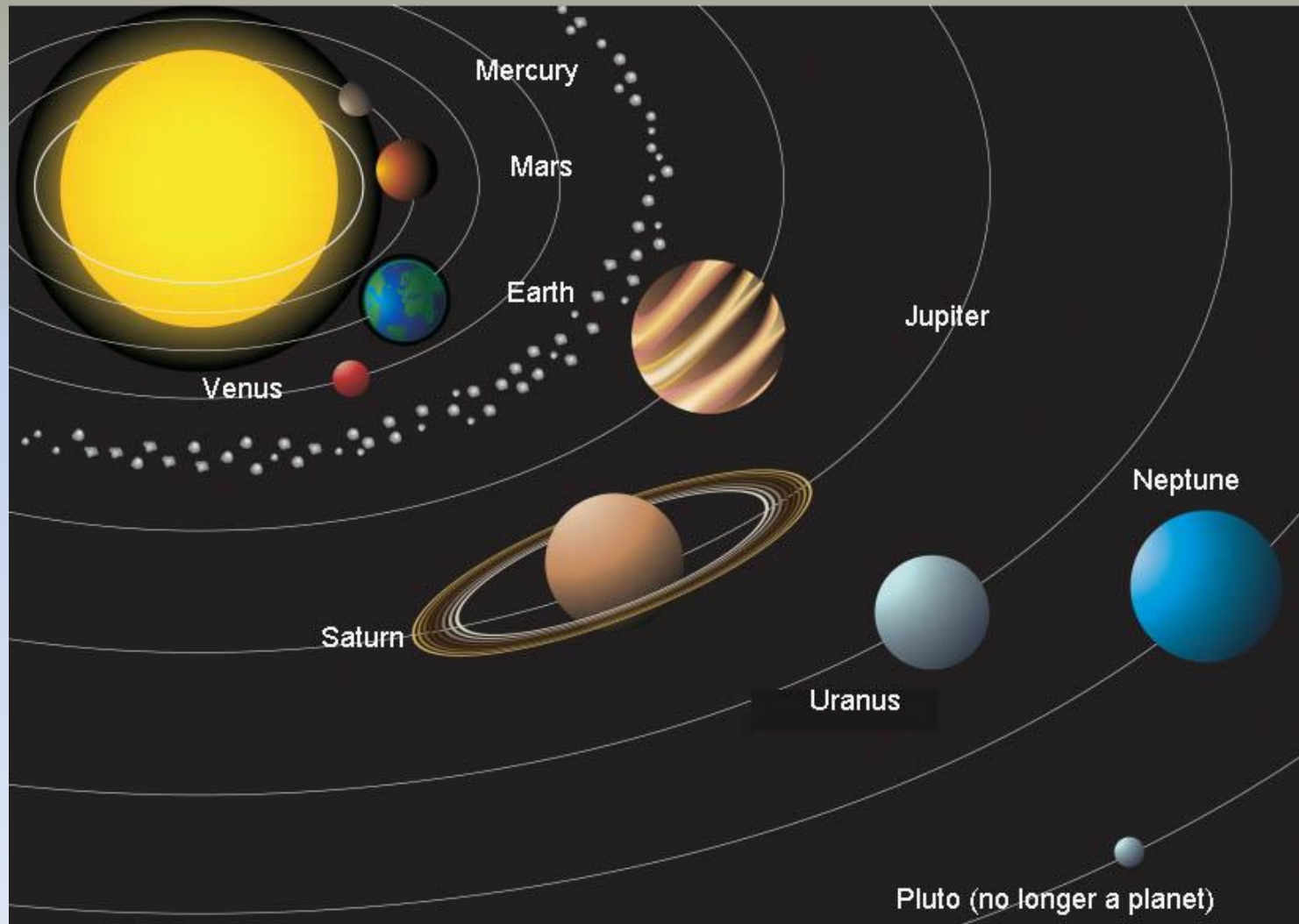
What if the other planet were as close as the moon?

The moon is very close and therefore looks large in the sky. The planets in our solar system are much larger but are much further and therefore, look very small.



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Our Solar System



The Sun

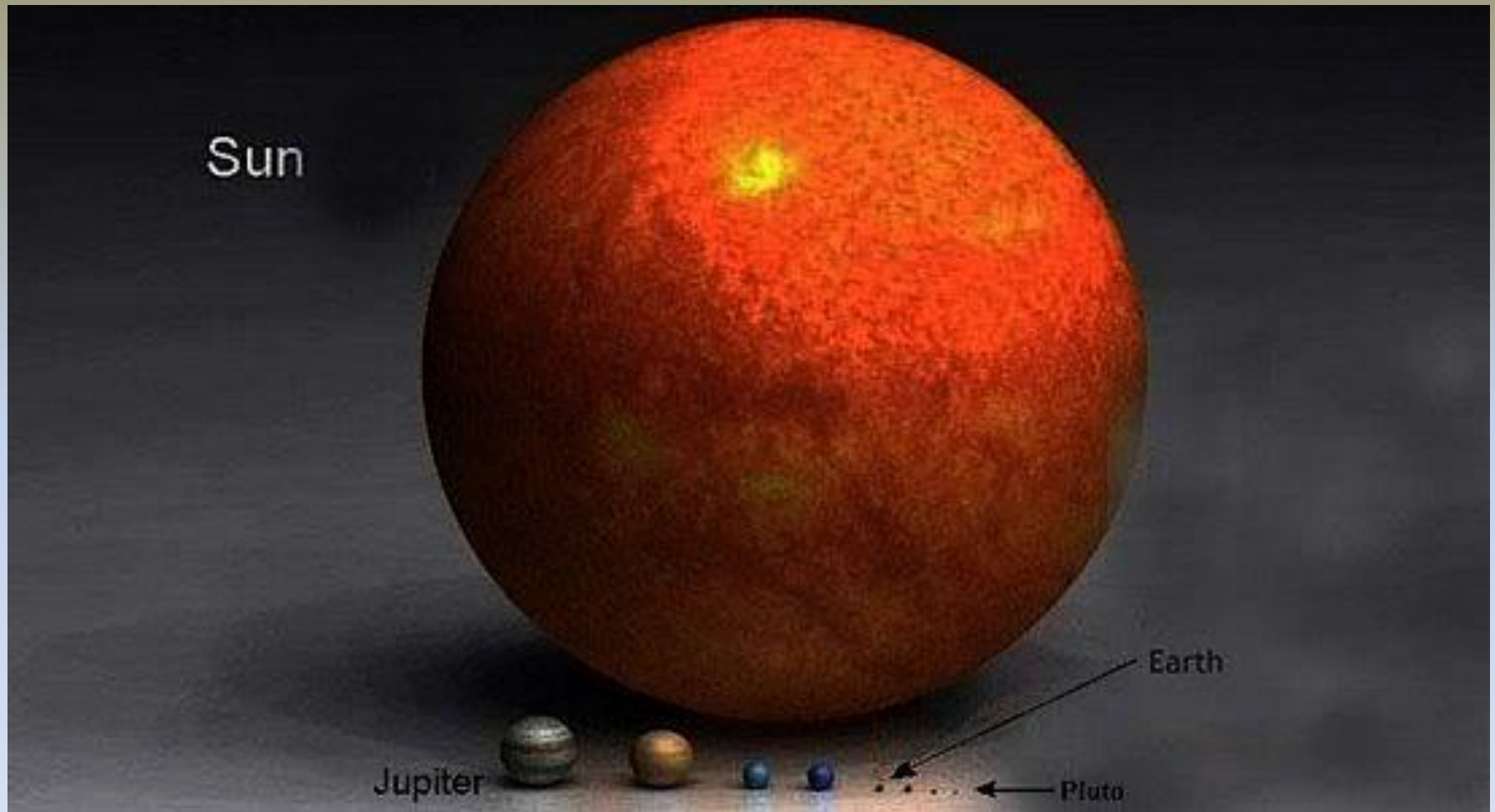
- _____
-
- Core conditions



— _____

— _____

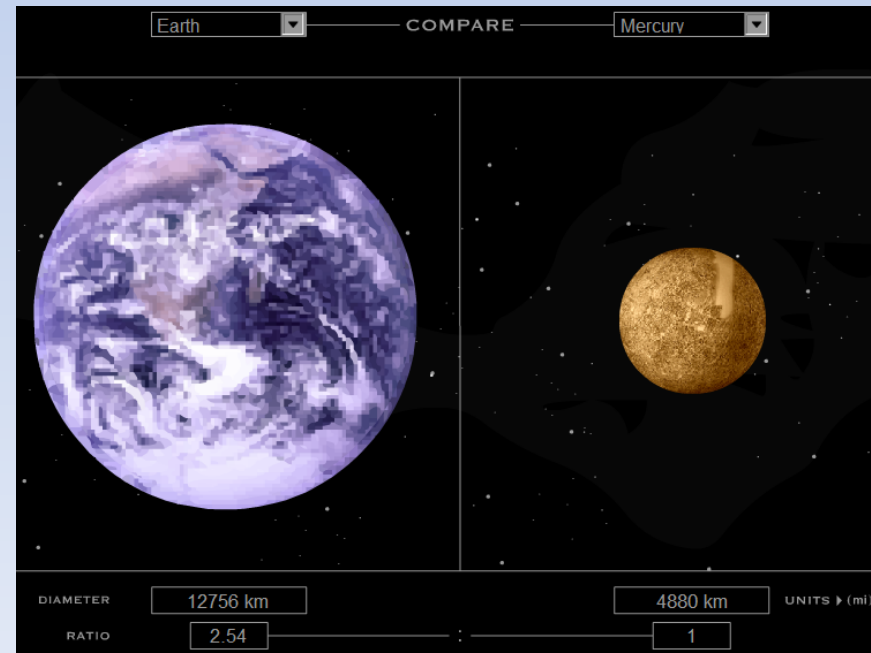
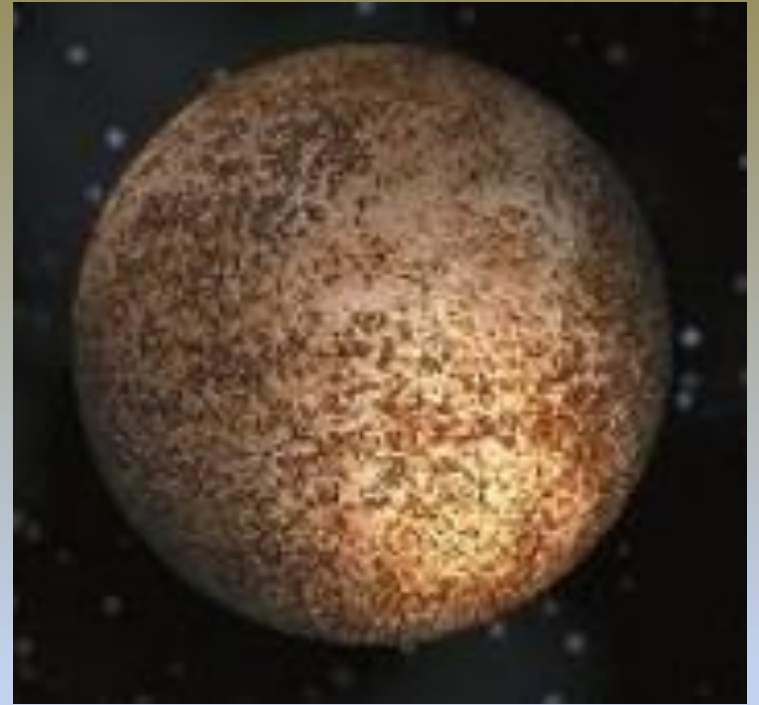
The Sun is Huge!!



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MERCURY

- Shortest orbit around the Sun (0.24 Earth years)



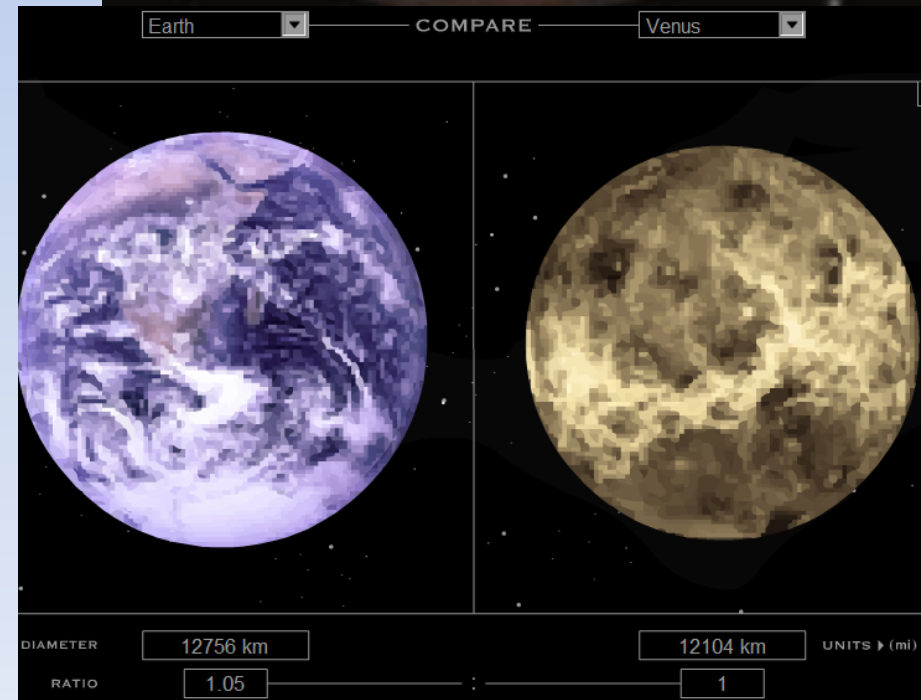
VENUS

- Orbit (0.62 Earth years)

- _____

- Rocky ball

-



EARTH

- _____

- Orbit 365.25 days
- Only planet known to sustain life in the Universe



MARS

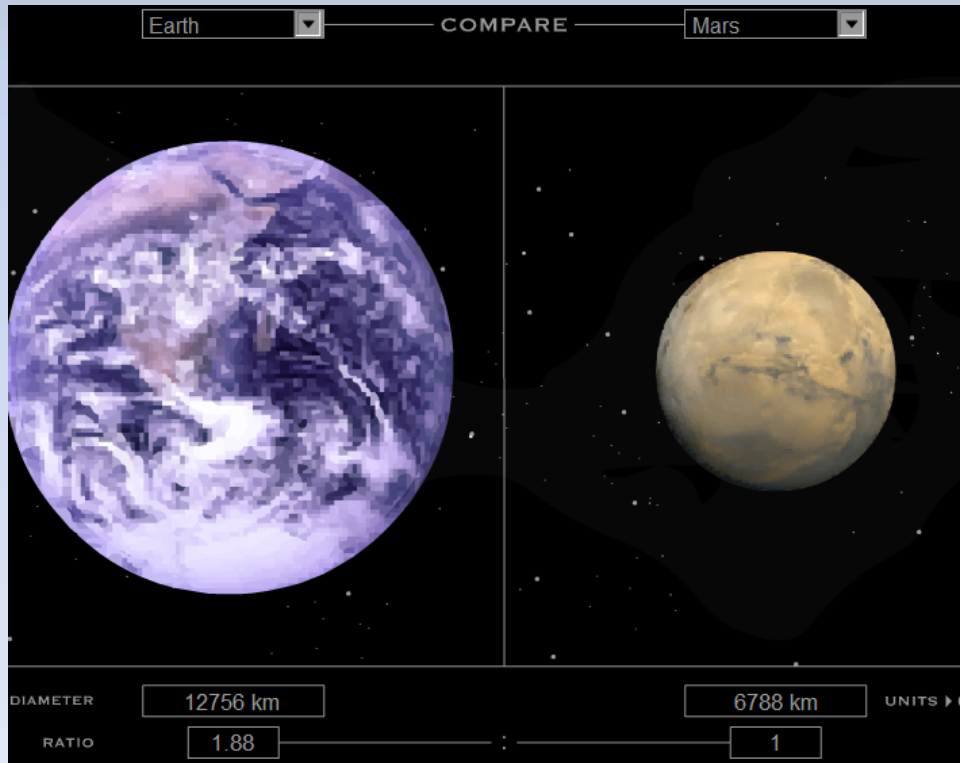
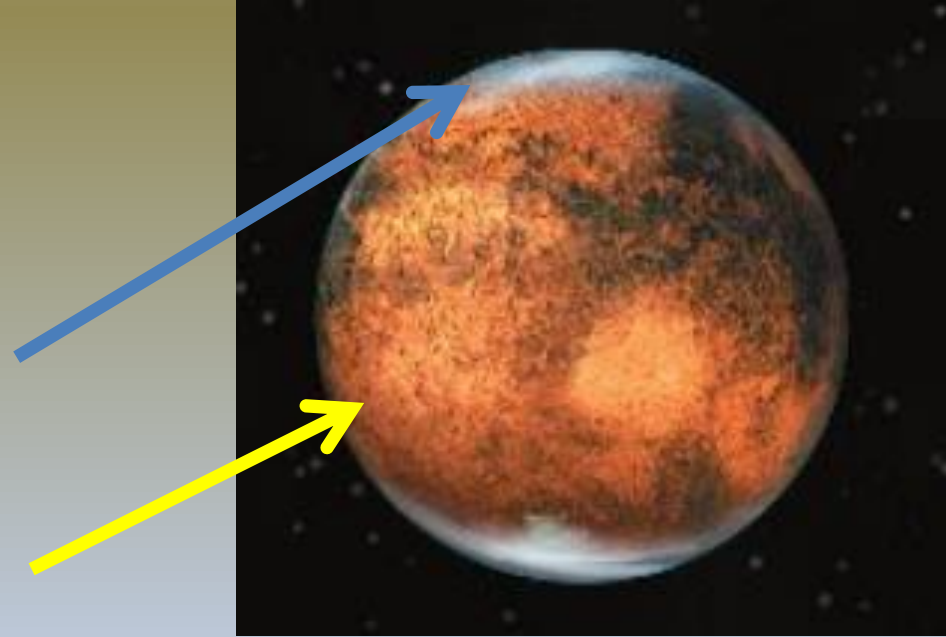
- _____

- Mars is known as the red planet due to the rust covering the surface

-

- Earth's diameter is 1.88 times larger

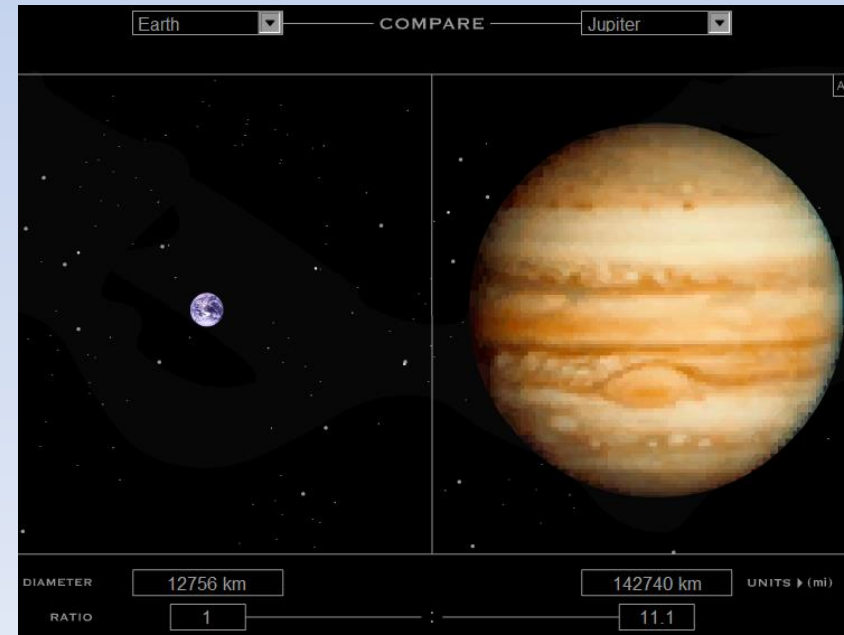
- Rocky ball



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JUPITER

- Jupiter contains over 70% of the mass in the solar system outside the Sun.
- Jupiter is a ball of gas and liquid (mostly hydrogen and helium).

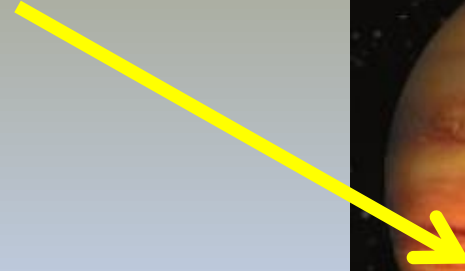


Jupiter's Great Red Spot

- Has a great red spot

-

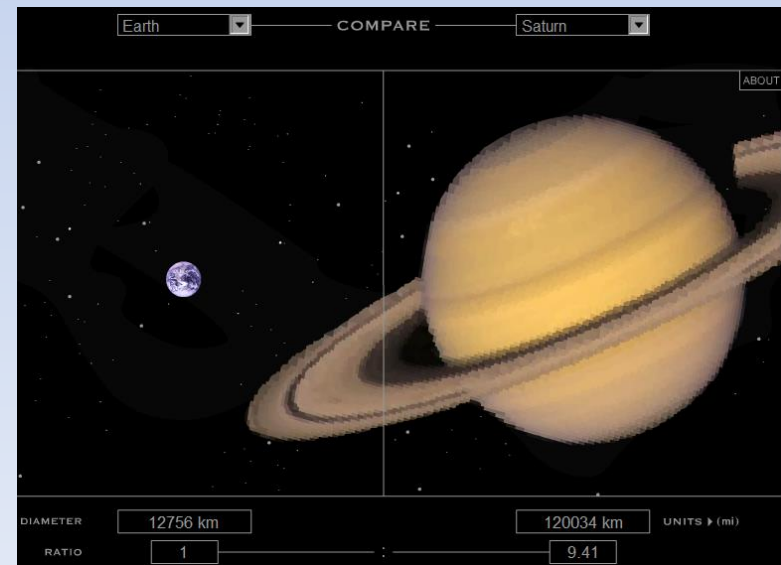
- _____



SATURN



- Made of gas
- _____
- Identified by its many rings composed of ice particles
- Orbit (29.46 Earth years)
- Its diameter is 9.41 times larger than Earth's

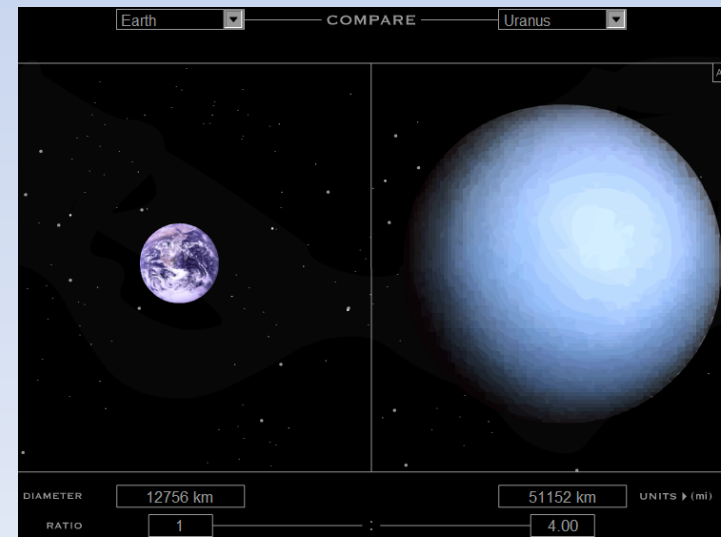


URANUS

- Made of gas
- Thinner ring system

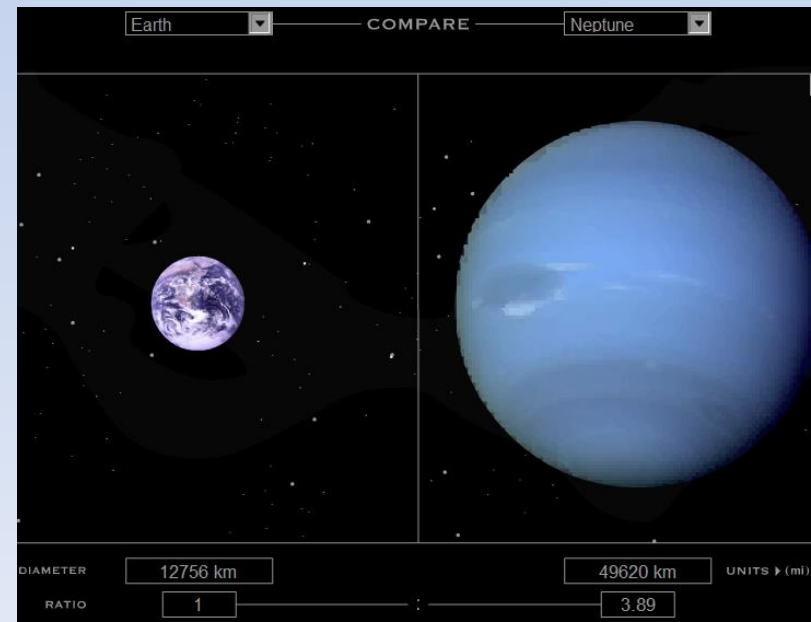
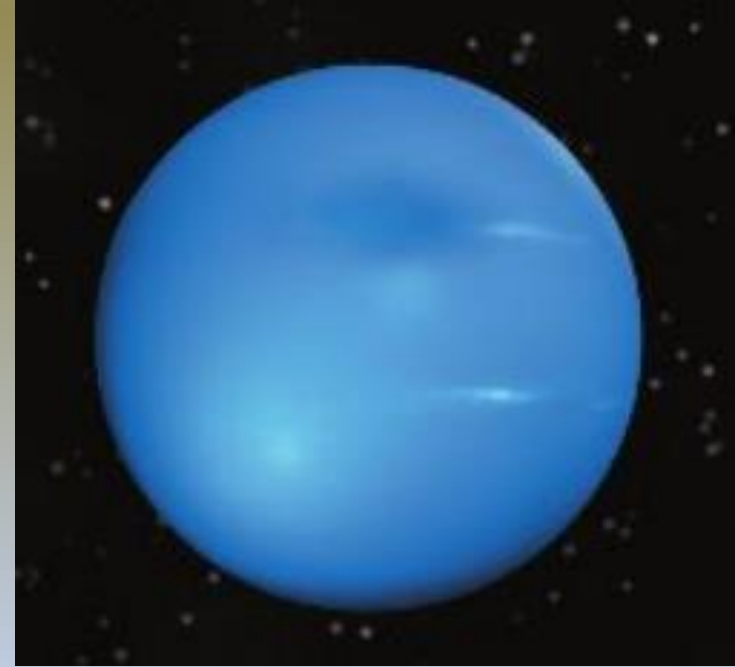
- _____

- Orbit (84.01 Earth Years)
- Its diameter is 4 times larger than Earth's
-



NEPTUNE

-
 - Similar to Uranus
 - _____
-
- Orbit (164.8 Earth Years)
 - Its diameter is 3.8 times larger than Earth's



PLUTO



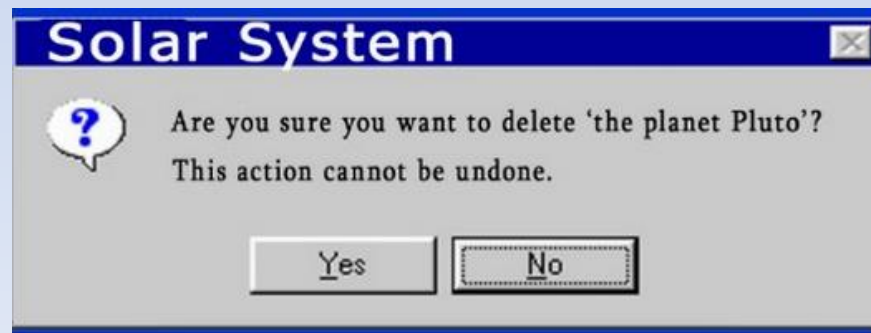
- No longer considered a Planet
- Is the second most massive known dwarf planet in the Solar System
- _____
- _____

Pluto



Why was Pluto demoted?

- _____
- Too many similar objects – instead of adding 1000's of planets, they removed one
- It has a very strange orbit



Observing Stars and Planets

- _____
-
- The Sun and all the objects that travel around it make up the *Solar System*
- Our Sun is also a star



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