

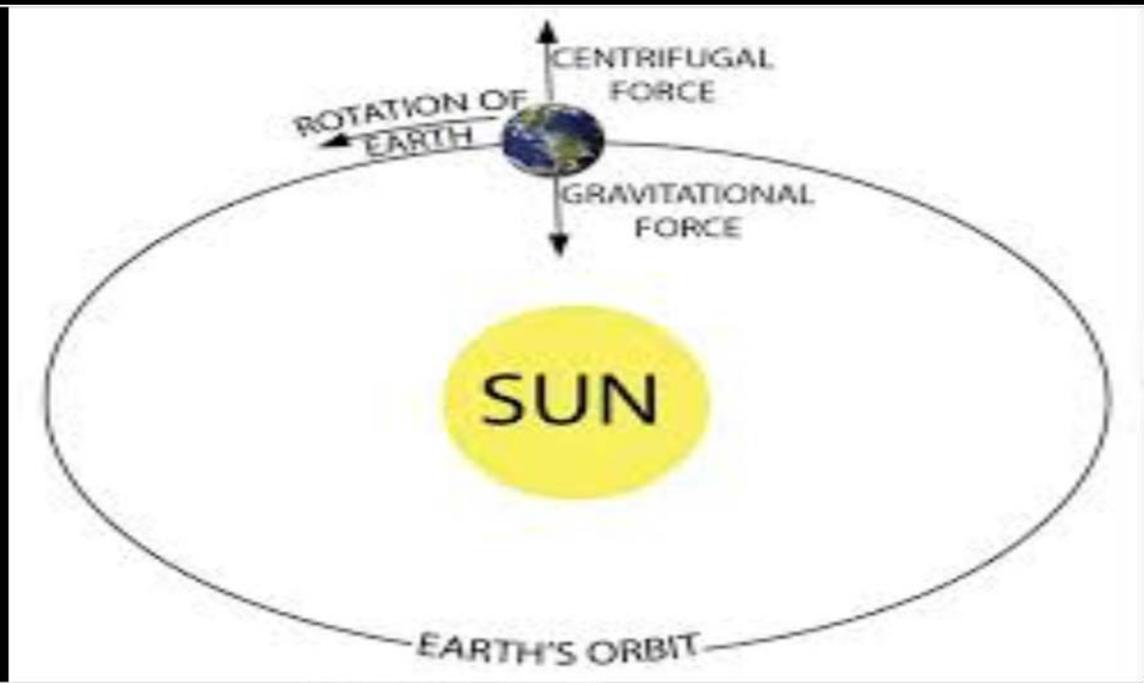


GRAVITY

By miguel psaila

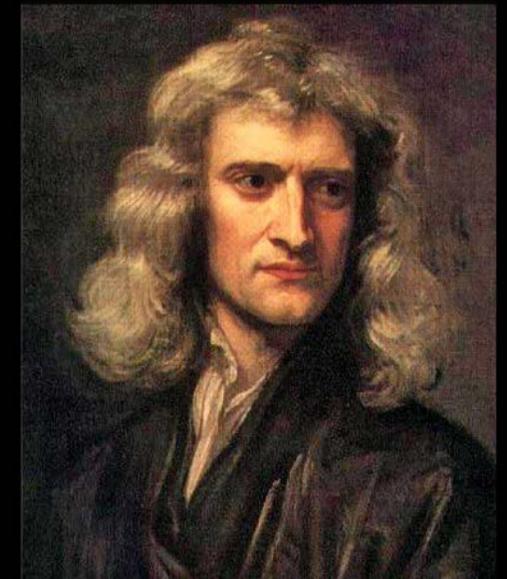
WHAT IS GRAVITY?

- Gravity is a force of attraction that pulls together all matter (anything you can physically touch). The more matter something has, the greater the force of its gravity. That means really big objects like planets and stars have a stronger gravitational pull. The gravitational pull of an object depends on how massive it is and how close it is to other object.



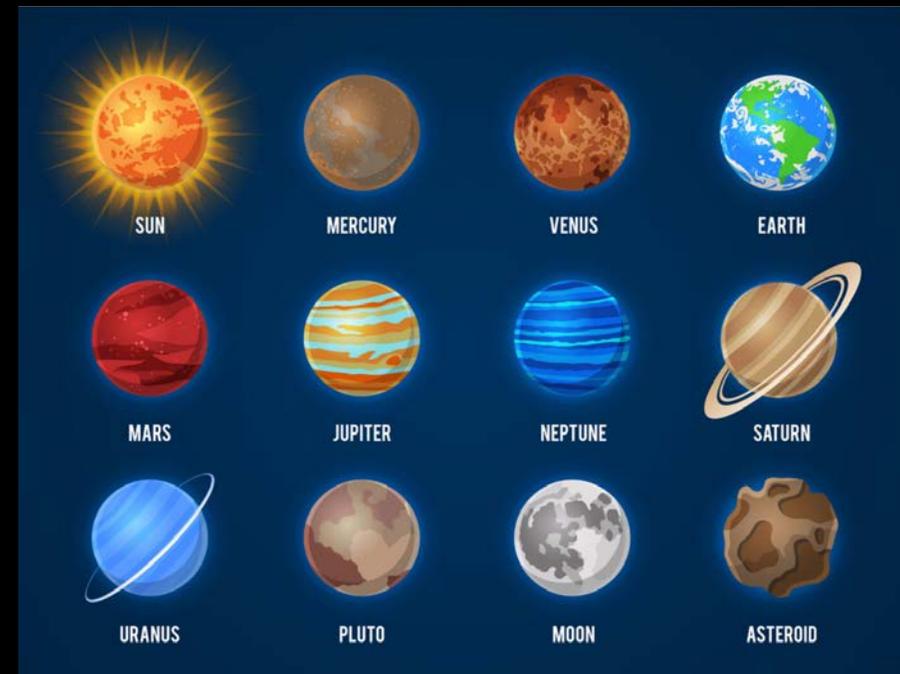
WHO DISCOVERED GRAVITY?

- For a long time, scientists knew that there was some mysterious force that keeps us on surface of the earth. It wasn't until 1666 that Isaac Newton first mathematically describe the force of gravity, creating Newton's laws of universal gravitation. It is said that his ideas about gravity were inspired by watching an apple fall from a tree. Newton wondered what force made the apple fall downward instead of simply floating away.



WHY IS GRAVITY IMPORTANT?

- We already mentioned that we wouldn't be able to stay put on earth's surface without gravity. Objects would simply float away if gravity didn't exist. Gravity is also the force that keeps earth in orbit around the sun, as well as helping other planets remain in orbit.



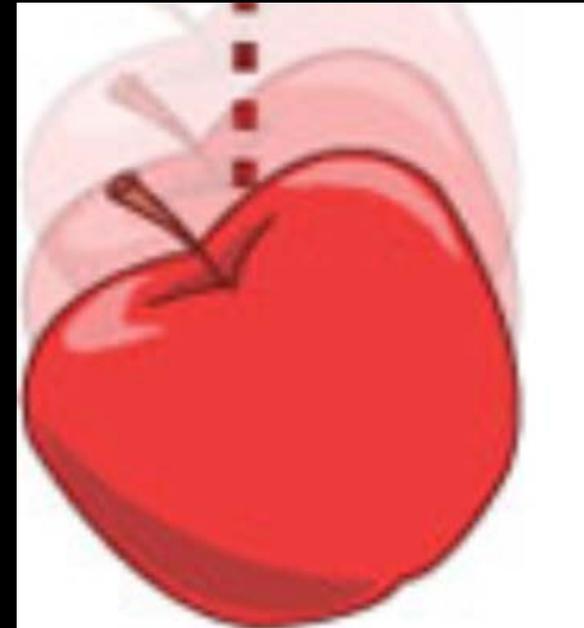
FACTS ABOUT GRAVITY

- High and low tides in the ocean are caused by moons gravity.
- The moons gravity is $\frac{1}{6}$ of earths gravity, so objects on the moon will weigh only $\frac{1}{6}$ of their weight on earth. So if you weigh 80pounds (36 kilograms) here on earth, you would weigh about 13 pounds (6 kilograms) on the moon!
- Object weigh a little bit more at sea level than they do on the top of a mountain.



EXPERIMENT

- For fun I would like you to grab an small abject and see the object you chose fall to the ground. Throw it up, to the air, to your left and to your right and think like Isaac Newton



WHAT DOES GRAVITY LOOK LIKE?

- Well you cant actually see gravity but its like a huge super glue around the earth and around every planet in the solar system. If you didn't know with out gravity we wouldn't be in the solar system and the moon wouldn't float around us!



THE END

- I hope you enjoyed my PowerPoint about gravity and I will see you later

