

GRAVITY

THE FORCE WHICH PULLS THINGS TO EARTH

JULIAN CASSAR

KUYLON AQUILINA

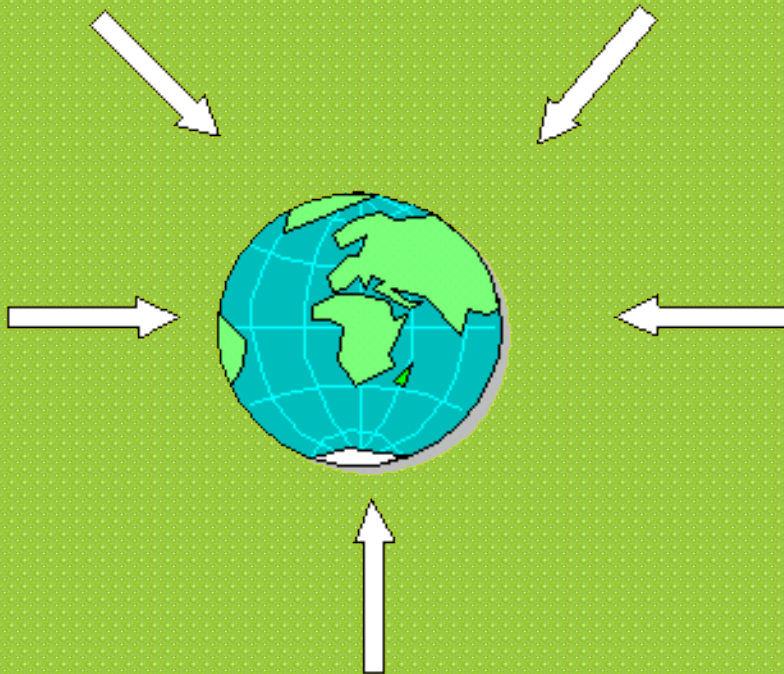
Have you ever wondered why a ball doesn't fly off, but falls back to the ground when you kick it?



This ball is pulled towards the centre of the Earth by a natural force called **GRAVITY**

GRAVITY pulls all objects to the centre of the Earth.

(Force = a pull or a push on an object).



Gravity is also the force that keeps the Earth in orbit around the Sun, as well as helping other planets remain in orbit.

Which do you think would fall first?



A table-tennis ball



A tennis ball



The table tennis ball and the tennis ball fall at the same rate of speed.....

BUT....

Since the tennis ball has more MASS (or weight), the *gravitational pull on the tennis ball* is **STRONGER!**



IMPORTANT: Gravity has a stronger force on things with things with more mass !!!

On the other hand, it takes a FORCE to overcome Gravity!

Throw a grape in the air, and then, throw a football in the air.....

You had to use **MORE FORCE** to throw the football because it has **MORE MASS** (weight)



Gravity was discovered by Sir Isaac Newton, a well known scientist, about 300 years ago, when he saw an apple fall from a tree to the ground.



**For a summary and more information on
GRAVITY please watch this video:**

<https://www.youtube.com/watch?v=suQDwZcnJdg>

Thank you for your attention