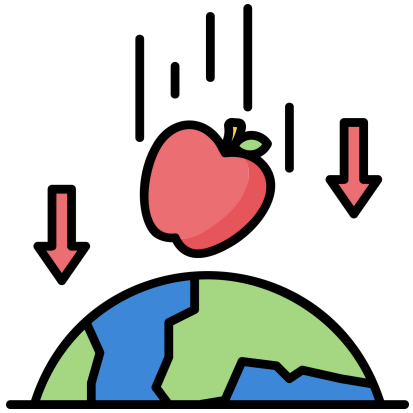
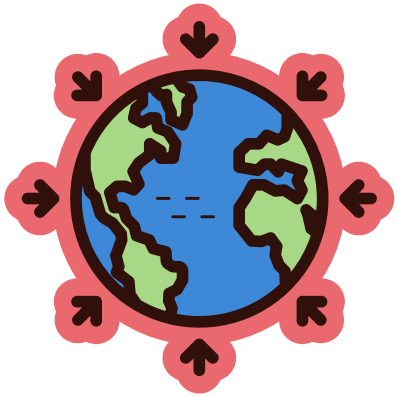
GRAVITY GAME

Have you ever wondered why we don't all float away into space?

It's all thanks to **gravity**! Gravity is one of the first forces we discovered. Anything with mass has a gravitational pull. Since the Earth has a lot of mass, we feel the pull towards the centre of the Earth more than any other source of gravity.





Do heavier objects fall faster?

A ball that weighs 10 kg would have twice as much gravitational pull compared to a 5 kg ball. But heavy things are harder to move! It takes twice as much force to move the 10 kg ball.

The result? These two forces cancel each other out. **All objects fall at the same speed in Earth's gravity** — unless something gets in the way.

A feather falls slower than a hammer because, like a parachute, the feather catches more air. In a place with no air, like the Moon, the feather and hammer fall at the same speed!

WAIT! DO NOT FLIP THIS PAGE!

Before you flip this page over, check:

1. Have you completed the experiment?

2. Have you answered all the discussion questions?

Only look at the other side of this page when you are finished.

IF SOMEONE ELSE IS DOING THIS EXPERIMENT AFTER YOU, PLEASE FLIP THIS PAGE BACK OVER!