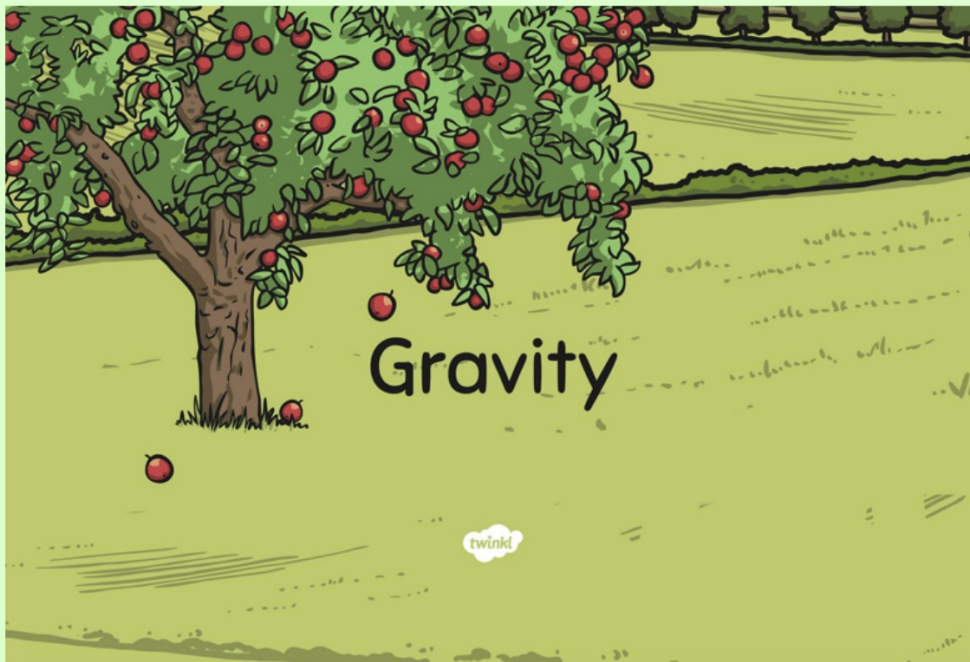


Wednesday 2nd October

L.O. Explore the effects of gravity.



**L.O. Explore the effects of gravity.**

**If I drop a ball on the floor, what will happen?**

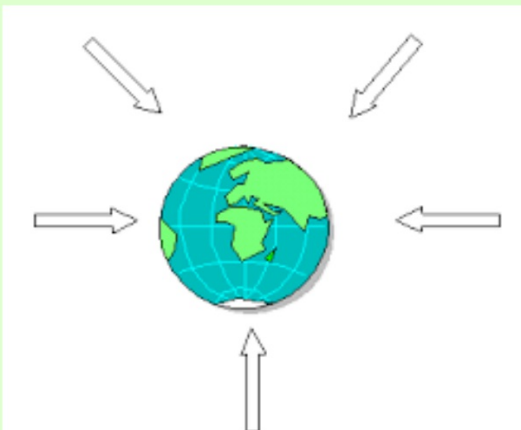
Why doesn't it go up or sideways?



## L.O. Explore the effects of gravity.



Gravity is an invisible \_\_\_\_\_ that \_\_\_\_\_ objects towards \_\_\_\_\_ .



The forces on the person are balanced



**L.O. Explore the effects of gravity.**

Gravity was **discovered** by Isaac Newton.

**Let's watch:** 

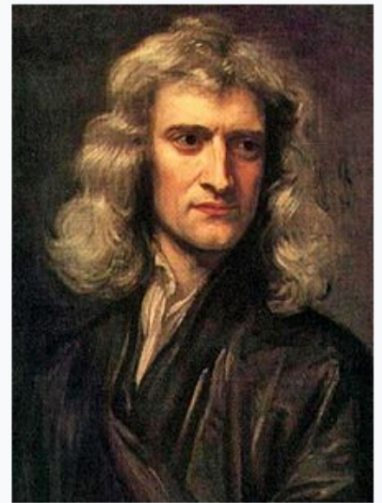
## L.O. Explore the effects of gravity.

Gravity was \_\_\_\_\_ by Isaac Newton.

Some people think that he first thought of gravity because...

*Add more facts about Isaac Newton you learned from the video.*

Sir Isaac Newton



Portrait of Newton at 46 in 1689 by [Godfrey Kneller](#)

<b>Born</b>	25 December 1642 [NS: 4 January 1643] <sup>[1]</sup> Woolsthorpe, Lincolnshire, England
<b>Died</b>	20 March 1726/7 (aged 84) [OS: 20 March 1726 NS: 31 March 1727] <sup>[1]</sup> Kensington, Middlesex, England
<b>Resting place</b>	<a href="#">Westminster Abbey</a>
<b>Nationality</b>	English

**L.O. Explore the effects of gravity.**

Objects are all made of **matter**.

**Mass** is a measure of the amount of **mass** that makes up an object.

**Mass** is measured in kg, or...

An object's mass **stays the same wherever it goes**.

**Mass** measures the amount of **matter** that makes up an object.

**Weight** measures the force of gravity acting on an object.

**L.O. Explore the effects of gravity.**

**Watch:**

Why you weigh more on Jupiter





## L.O. Explore the effects of gravity.

Mass is a measure of the amount of \_\_\_\_\_ that makes up an object. It is measured in \_\_\_\_\_ .

Weight is a measure of the strength of \_\_\_\_\_ acting on an object. It is measured in \_\_\_\_\_ .

**gravity**  
**matter**  
**Newtons**  
**kilograms**

**L.O. Explore the effects of gravity.**

Object	Mass (g)	Weight (N)

What pattern do you notice?