

# Forces - Yr 5/6

## Key vocabulary:

**Gears** - wheels with teeth that slot together. When one gear is turned, the other gear turns too

**Lever** - helps us lift loads with less effort

**Forcemeter** - used to measure forces. It is also known as a newton meter

## National Curriculum links and rationale

During this unit, you will learn that unsupported objects fall due to gravity. You will also learn to identify the effects of air resistance, water resistance and friction that act between moving surfaces. You will be able to recognise that some mechanisms, including pulleys, gears and levers use a smaller force to have a greater effect.

## School links and rationale

Children will investigate forces and how different forces play a key role in everyday things we do. They will investigate how different forces behave and also learn to understand how different factors contribute to the speed of movement.

## Key vocabulary/ term

**Force** - strength or energy as a result of movement

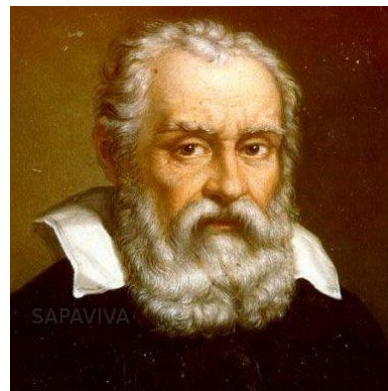
**Friction** - the resistance of motion, when one object rubs against another

**Air resistance** - a type of friction between air and another material

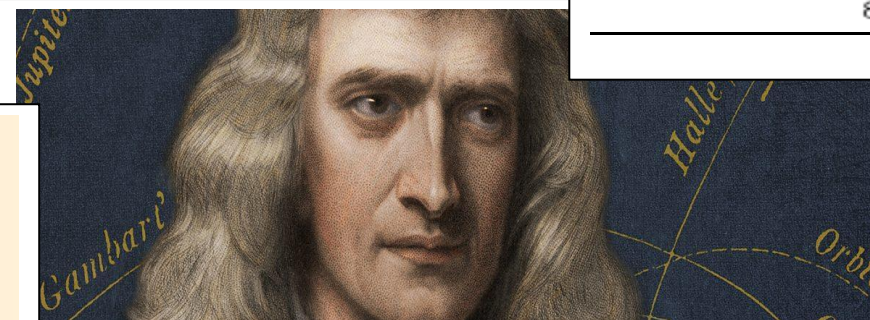
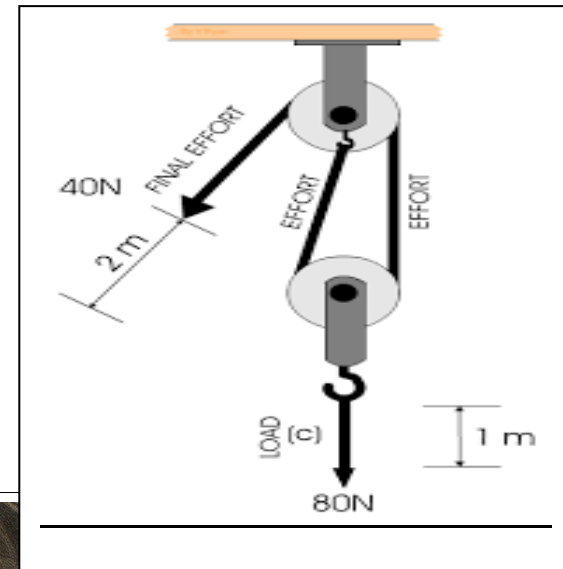
**Water resistance** - is a force that slows things down that are moving through water

**Mechanisms** - a system of parts working together

**Pulleys** - a simple machine comprising of a wheel on a fixed axle with a groove along the edges to guide a cable or rope.



Galileo Galilei



Isaac Newton

