ST PATRICK'S CATHOLIC PRIMARY SCHOOL

# Year Five
# Forces and Motion

## Assessment

I can identify and explain the different forces acting on objects.

I can explain Newton's role in discovering gravity.

I am able accurately measure an object's weight and mass.

I can explain how to increase the effects of air resistance.

I am able to identify streamlined shapes.

I can design their own mechanism to achieve a given purpose.

## Line of Enquiry

- What does gravity do?
- How can a force affect a movement?
- How can we measure forces?
- What happens when forces are not balanced?
- Is friction always a nuisance?
- What surfaces do you think will have high/low friction and why?

## Scientist Link

Isaac Newton
1642 - 1727

Isaac Newton is famously thought to have developed his theory of gravity when he saw an apple fall to the ground from an apple tree.

## Working Scientifically

I can identify the variables in an investigation.

I have made observations and conclusions.

I will be able to answer questions based on my learning.

I can investigate the effects of friction.

## Vocabulary

gravity

weight
mass

friction
air resistance
water resistance
buoyancy
streamlined
Upthrust

## Key facts

- Mass is how much matter is inside an object. It is measured in kilograms (kg).
- Weight is how strongly gravity is pulling an object down. It is measured in newtons (N).
- Water resistance and air resistance are forms of friction.
- Forces can make an object move, change shape, stop moving. Move faster or slower.