HOLY NAME CATHOLIC VOLUNTARY ACADEMY

Year 5 Science

Are forces always fabulous?

Retrieval	New Learning
• Know that objects move differently on different surfaces • Know that some forces need contact between two objects, but magnetic forces can act at a distance. • Know how magnets attract or repel each other and attract some materials and not others.	• Which force is acting on objects which fall towards the Earth? • What effect does air resistance, water resistance and friction, have on moving surfaces? • What effect do: levers, pulleys and gears have on a given force?

Key Vocabulary	Definition
force	An action that changes or maintains the motion of an object. They can change an objects: speed, direction or shape.
gravity	A force which pulls two objects towards each other.
air resistance	A type of friction between the air and an object.
water resistance	A type of friction between the water and the surface of an object.
friction	A force between two objects which are trying to slide across each other.
mechanism	A device that changes motion or force, either to create a greater output or to control it
levers	A long bar with a pivot point.
pulleys	A pulley is a wheel on a fixed axle with a groove in it to guide a rope or cable.
gears	Wheels with teeth that slot together, when one wheel turns, the others turn as well.

Scientific Enquiry Skills



Beyond the Curriculum

Virtues

Resilience and love of neighbour

Catholic Social Teaching

Participation



Explore forces when you are at the park. Which forces are helpful and which are unhelpful?



Explore how changing the shape of a piece of paper affects how quickly it falls.

Create a simple machine which helps to change a force e.g. using gears, pulleys or levers.

