BRUNSHAW PRIMARY SCHOOL

Inspiring children to be resilient and aspirational learners, within a positive and considerate community

Subject: Science	Year group: 5 Term: Summer 1	Title: Forces

What should I already know?	Facts I will learn	Key questions
• Know that some forces need contact between two objects and different surfaces affects how things move	• Gravity is the force that pulls objects towards the centre of the earth • Air resistance causes a parachute to slow its descent towards the earth, as it is acting against gravity • Water resistance prevents some objects moving on water; objects have to be designed (such as boats) to reduce the amount of water resistance, allowing it to move • Objects travel easier on smooth surfaces, however, objects find it easier to stop on rougher surfaces (e.g. tyres have tread depth in order for them to stop at a quicker rate compared to them being smooth)	• What is gravity? • How does a parachute slow the descent of a person? • How do objects, such as boats, move on water? • What is the best surface from certain objects to travel? • How can levers, pulleys and gears be used to allow for easier movement?
Key Skills • Take accurate measurements, using different scientific equipment • Use my test results to make predictions for further tests • Use scientific evidence to back up my ideas	**Experiences that school will provide** • Measuring using a variety of scientific equipment	**Key vocab** / **Definition**
Web links https://www.stem.org.uk/resources/community/collection/12696/year-5-forces explorify.uk	**Experiences that could be provided at home** • Make a variety of paper boats and see which one travels the furthest on water (you could use the sink or the bath)	

Key vocab	Definition
Force	A push or a pull in a particular direction
Gravity	A force that pulls everything towards the centre of the Earth
Air Resistance	A type of friction between air and an object
Water Resistance	A type of friction between water and an object
Friction	A force when one object rubs against another
Levers	A part of an object that pushes against a force
Pulleys	A part of an object that pulls against a force