



St Bartholomew's Knowledge Organiser	Class 3	Summer 2 Science – Year A	Forces
What we will learn:		Science Knowledge:	
<p>In this unit you will learn how to;</p> <ul style="list-style-type: none"> ➤ Carry out investigations to explore how objects move on different surfaces e.g. spinning tops/coins, rolling balls/cars, clockwork toys, soles of shoes etc. ➤ Explore what materials are attracted to a magnet. ➤ Investigate the force needed to pull an object carrying different weights, then plot data on a bar graph. ➤ Observe how magnets attract or repel each other and attract some materials and not others ➤ Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials ➤ Learn that magnets have 2 poles and that same poles repel whilst opposite poles attract. ➤ Explore how magnets work at a distance e.g. through the table, in water, jumping paper clips up off the table. ➤ Devise an investigation to test the strength of magnets. 		<ul style="list-style-type: none"> ➤ Compare how things move on different surfaces. ➤ Notice that some forces need contact between two objects, but magnetic forces can act at a distance. ➤ Observe how magnets attract or repel each other and attract some materials and not others. ➤ Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials. ➤ Describe magnets as having two poles. ➤ Predict whether two magnets will attract or repel each other, depending on which poles are facing. 	
Important Vocabulary		Scientific Skills we will develop:	
<p>Force, push, pull, twist, contact force, non-contact force, magnetic force, magnet, strength, bar magnet, ring magnet, button magnet, horseshoe magnet, attract, repel, magnetic material, metal, iron, steel, poles, north pole, south pole</p>		<ul style="list-style-type: none"> ➤ Set up simple practical enquiries and comparative and fair tests. ➤ Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment. ➤ Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables. ➤ Ask relevant questions and use different types of scientific enquiries to answer them. ➤ Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions. ➤ Gather, record, classify and present data in a variety of ways to help answer questions. ➤ Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. 	

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