

Year Group	3	Term	Autumn 2	Subject	Science	Торіс	Forces and Magnets	
						Key Question	KQ: What impact do forces have on different objects?	
Prior Learning and other Curriculum Links	Year 1: Distinguish between an object and the material from which it is made Year 2: Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses					Skills Statements	•I can compare how things move on different surfaces. • I can see that some forces need contact between two objects, but magnetic forces can act at a distance • I can observe how magnets attract or repel each other and attract some materials and not others • I can compare and group some materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials • I can describe magnets as having two poles • I can predict whether two magnets will attract or repel each other, depending on which poles are facing.	
Fundamentals	 Compare how things move on different surfaces. Notice that some forces need contact between 2 objects, but magnetic forces can act at a distance. Observe how magnets attract or repel each other and attract some materials and not others. Describe magnets as having 2 poles. Predict whether 2 magnets will attract or repel each other, depending on which poles are facing. Compare how things move on different surfaces Observe how magnets attract or repel each other and attract some materials and not others 					Key Facts/Sticky Knowledge	 A force is a push or pull. Forces can make things move, change their speed, or change their shape. When forces are balanced, there is no change in motion. When the motion of an object changes, the forces are unbalanced. Air is a pushing force, one that can be very powerful the stronger the wind, the stronger the PUSH. Friction always works in the direction opposite to the direction in which the object is moving, or trying to move. Friction always slows a moving object down. 	

Our Curriculum Journey	and unbalanced forces are, observing them in action. Ne stronger the wind, the harder the push is. Moving on following different surfaces. They will explore this using differ magnetic. Here they will understand the difference be	Next, the children from this, the child enter materials. The etween attract and gnets to move objectives.	lren will understand why objects will move differently on next lesson will look at how they know an object is I repel. After this, the focus of the lesson will be on how cts. Finally, the children will be looking at how magnetism
Key Vocabulary (revisited)	wood, metal, plastic, glass, brick, rock, paper, prediction, results, conclusion	Key Vocabulary (new)	push, pull, twist, force, air, turns, fast, slow, slows down, material, surface, magnet, attracts, magnetic material, magnetism, acts at a distance, non-magnetic material, metal, non-metal, strength, north pole, south pole, repel