



Class 2

Madron Daniel Science Small Step Progression

Forces -Year 3 Unit – Year D

Retrieval vocab: N/A New Vocab 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				Previous learning Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. (Y2 - Uses of everyday materials)		Links with Vision and Values. Stimulate in every child a sense of curiosity and excitement about the world
	Working scientifically/ enquiry focus	Curriculum Strand/ Focus	Small step objective	Previous learning within the unit.	Lesson content	Outcome
1	Identify/ Classify	Forces	Compare how different things move.	N/A	What is a force?	The children can: Describe pushes and pulls as a type of force and give examples. They will be able to explain how different objects move using these forces.
2	Comparative/Fair testing	Forces	Plan and conduct a fair test to compare how objects move on different surfaces.	As above Describe pushes and pulls as a type of force and give examples. They will be able to explain how different objects move using these forces.	Do objects move the same on different surfaces?	The children can: Discuss how the object moved on different surfaces. They will be able to explain how they planned a fair test.
3	Comparative testing	Forces	Explore how magnetic forces act at a distance.	As above Discuss how the object moved on different surfaces. They will be able to explain how they planned a fair test.	How do magnetic forces work?	The children can: Explain that there are forces that require contact and forces that do not. They will be able to describe magnetic force as non-contact and that it acts at a distance.



Class 2

Madron Daniel Science Small Step Progression

4	Identify/Classify Pattern seeking	Forces	Compare and group various everyday materials based on whether they are attracted to a magnet.	<i>As above Explain that there are forces that require contact and forces that do not. They will be able to describe magnetic force as non-contact and that it acts at a distance.</i>	Which materials are magnetic?	The children can: Identify a range of magnetic and non-magnetic materials that they have identified from their explorations.
5	Identifying Pattern seeking	Forces	Predict whether two magnets will attract or repel each other, depending on which poles are facing.	<i>As above Identify a range of magnetic and non-magnetic materials that they have identified from their explorations.</i>	Do magnets attract each other?	The children can: Describe magnets as having two poles - North and South. They will be able to explain how opposite poles attract and the same poles repel.
6	Comparative/ Fair testing	Forces	Record my findings using simple scientific vocabulary. I can use my results to draw simple conclusions.	<i>As above Describe magnets as having two poles - North and South. They will be able to explain how opposite poles attract and the same poles repel.</i>	Are all magnets the same strength?	The children can: Describe how not all magnets have the same strength. They will be able to use the results from their investigation to explain how they know.