Medium-Term Planning Format						
Cohort	Year 3					
Enquiry Question (QUESTIONING)	Is the force strong with you?					
Enquiry Driver	Science					
Enquiry Enhancer	D&T					
Main Enquiry Theme	Forces and magnets					
National Curriculum Objective	 Science (Forces and magnets) Pupils should be taught to: 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. Design and Technology When designing and making, pupils should be taught to: Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design. Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately. Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities. 					
Key Knowledge and Skills (driver)	 Can they observe that magnetic forces can be transmitted without direct contact? Can they talk about how some magnets attract or repel each other? Can they classify which materials are attracted to magnets? Can they describe the speed and direction of moving objects? 					
Key Knowledge and Skills (enhancer)	 Can I describe a design using an accurately labelled diagram? Can I measure, mark out, assemble and join materials and components with some accuracy? Can I choose materials for a purpose? (Children will design and create robots by selecting from different materials and learning how to join and strengthen them) 					

Main Text	 The Iron Man b No-Bot by Sue I Robots by Melis 			Hendra the Iron	Robots THE ROBOT WITH NO SUIF FRANCE A PAIL LIMITY		
Main Writing Genre	Poetry			The children will explore different forms of poetry, including caligrams and shape poems.			
	Narrative			The children will be writing a story about a robot that malfunctions and causes chaos. KS2- NARRATIVE Opening-Setting Problem/dilemma Built up Problem/dilemma RESOLUTION CONCLUSION			
Enquiry Hook (Questioning) [Experiences/ experts]	Lego Robotics coming into school to build Lego robots with the children.						
Subsidiary Enquiries		LC1	C4 What do magnete do?				
			What do magnets do?				
		LC2 LC3	Why do some magnets attract and some repel?				
				What are magnets used for?			
		LC4	What is artificial intelligence?				
		LC5	How are robots helpful to humans?				
Reflection of							
Learning (SHARING)	Poetry performance afternoon: the children will share/perform their robot poems (parents will be invited).						
Potential Sticky Knowledge		A force is a push or a pull on an object					
····ouricuge	 A force is a push or a pull on an object. A force can cause something to speed up, slow down, change shape or change 						
	direction.Magnets are objects that push or pull things with an invisible force called						
		_	netism.	bjects that push of pull things with an	invisible force called		
	The ends of a magnet are called 'poles': one end is the north pole and the other is the south pole.						
	 North pole and south pole (opposites) attract and two poles that are the same will repel. 						
	 Magnets can be found in many everyday devices such as computers, televisions, microwaves and refrigerators. 						
	•	A rob	A robot is a machine that does tasks without the help of a person.				
	 George Devol invented the first digitally operated and programmable robot in 1954 						

Knowledge Mat Year 3 Knowledge Organiser (Spring 2): Is the force strong with you Other curriculum areas which are to be taught discretely: What kind of world did Jesus want? **Religious Education** Can I identify texts that come from a Gospel, which tells the story of the life and teaching of Jesus? Can I make clear links between the calling of the first disciples and how Christians today try to follow Jesus? (and be 'fishers of people') Can I suggest ideas and then find out about what Jesus' actions towards outcasts mean for a Christian? Can I give examples of how Christians try to show love for all, including how Christian leaders try to follow Jesus' teaching in different ways? Can I make links between the importance of love in the Bible stories studied and life in the world today, giving good reasons for my ideas? **PSHCE** Understanding others, understanding me and looking after me What do I do when my friend is sad? Who do my actions affect? What are my relationship rights and responsibilities? How do I raise my concerns? (see Talking Points curriculum for the full programme breakdown) Music See the Charanga programme for an in-depth overview of the National Curriculum links, key outcomes, learning challenges and skills. **Unit 4: The Dragon Song Physical Education** Net and Wall e.g. badminton, tennis and volleyball Can I stop/catch a ball with reasonable control? Can I pass a ball to another person with some accuracy? Can I take part in opposed conditioned games? Can I consolidate my striking skills and improve my control and quality? Can I select and apply appropriate skills and simple tactics in net and wall games? Can I follow the rules of a net and wall games?

Computing	See DB Primary Programming for an in-depth overview of the National Curriculum links, key outcomes, learning challenges and skills. Unit 16: Computer Science and Programming				
MFL	See the Primary Langauages Network programme for an in-depth overview of the National Curriculum links, key outcomes, learning challenges and skills. Unit 4: Carnival and Playground Games				
Additional Links	British Values	Outdoor Learning	Community		
			Recycling in school.		
	Citizenship (Beever Pledge)	Global Neighbours	Home Learning		
	To be an eco-warrior.		Creating their own robot from magnetic/recyclable materials.		