Autumn 2 Voor Group /

Term: Autumn 2 f	ear Group 4	
Learning Challenge Ques	tion: Why does the seesaw g	o up and down?
WOW – Visit the local	park and take photographs of	f forces
Week 1: What make an	object move?	
WOW – Trip to the park	thinking about different force	es in action.
SCIENCE LI: I can sort diff	erent forces.	
Identifying and Classifying	ng	
Week 2: Why does object	ts fall to the ground?	
COMPUTING LI: I can use	e the internet to research Isaa	ac Newton
Research		
SCIENCE LI: I know what	gravity is.	
SCIENCE LI: I know how g	gravity acts on an object.	
Weeks 3 and 4: Is it mag	netic?	
SCIENCE LI: I know how r	nagnetism work on an object	
SCIENCE LI: I can design a	a fair test.	
SCIENCE LI: I can conduct	t a fair test.	
Fair test		
SCIENCE LI: I can look for	patterns in my results.	
Pattern seeking		
Weeks 5 and 6: Can I ma	ke it move?	
DESIGN TECHNOLOGY LI	: I know how levers work.	
DESIGN TECHNOLOGY LI: I can design a moving puppet using levers.		
DESIGN TECHNOLOGY LI	: I can create a moving puppe	et using levers.
DESIGN TECHNOLOGY LI	: I can evaluate my moving pi	uppet.
Week 7: Can we code?		
COMPUTING LI: I can fol	low instructions to create a m	nodel.
Week 8: What have I lea	rned?	
Double page spreads.		
English Text: Articus and	the Ancient Greeks	
<u>KE</u> –Why do some people	think life is like a journey?	
IVIFL – Classroom objects		
	Identifiving and Classifying	Pattern Seeking
Duting Catalog	identifying and classifying	i atterni Seeking

Driver: Science	Identifiying and Classifying	Pattern Seeking
	Fair Testing	<u>Research</u>
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LKS2 Forces and Magnets

- compare how things move on different surfaces
- notice that some forces need contact between two objects, but magnetic forces can act at a ٠ 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			
1.1/07	each other, depending on which poles are facing.			
LKS	2			
•	I can raise my own and other relevant questions about world around me.			
•	I can begin to make my own decisions about the most appropriate types of scientific			
	enquiry.			
•	I can set up simple fair test.			
•	I can look for patterns and relationships.			
•	I can collect and record data from my own observations and measurements.			
•	I can present data in tables and bar charts.			
•	I can draw simple conclusions and answer questions.			
•	I can use relevant simple scientific language to discuss ideas and communicate findings.			
	I can identify new questions arising from collected data.			
	Vocabulary			
LKS2	2			
compare				
surf	ace			
forc	e			
mag	inetic			
attra	act			
repel				
mag	magnetic materials			
Des	ign and Technology			
•	understand and use mechanical systems in their products [for example, gears, pulleys,			
	cams, levers and linkages]			
•	apply their understanding of computing to program monitor and control their products			
	apply their understanding of compating to program, monitor and control their produces.			
LKS	2			
•	I can generate ideas for an item, considering its purpose and the users.			
•	I can make labelled drawings from different views showing specific features			
	I can develon a clear idea of what has to be done			
-	I can alan how to use materials, aquinment and processos			
•	i can plan now to use materials, equipment and processes.			

- I can identify criteria that can be used for my own designs.
- I can select appropriate tools and techniques for making my product. ٠
- I can measure, mark out, cut and shape arrange of materials, using appropriate tools, ٠ equipment and techniques.
- I can evaluate my work both during and at the end of the assignment. ٠
- I can evaluate products carrying out appropriate tests. •

Homework: Forces in everyday life.