Key Scientif	ic Skills	Year 5 Forces	Lesson Sequence	Year 5	Science	Aut	umn 1 l	Jnit	
Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary			the life and work of Isaac Newton	Year 5 Science Autumn 1 Unit					
Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs Use test results to make predictions to set up further comparative and fair tests			 2. Examine the connection between air resistance and parachutes 3. Explore factors which affect an object's ability to resist water 4. Investigate the effects of friction on different or friction on different or friction. 						
Report and present findi enquiries, including cond causal relationships and of and degree of trust in and written forms such a other presentations Identify scientific evidence been used to support or	clusions, l explanations results, in oral is displays and ce that has		surfaces 5. Investigate mechanism – levers and pulleys 6. Investigate mechanisms - gears	Mass a	be Sir Isaa	ac Newton d his theory		lileo conducted eriments to test	
arguments	Roo	cket Words		Grams/ Kilogram		ravity.	Progression of K	mass.	
Sir Isaac Newton	an English physicist and mathematician Weight is how much force is - Unit YEAR 3 YEAR 5								
gravity								Explain that unsupported	
Galileo Galilei	an Italian scientist, and the first astronomer Newtons. Vertice that some forces Earth because of							objects fall towards the Earth because of the force	
parachute	a device, usually made from cloth, designed to create air resistance and slow descent Mechanisms objects, but magnetic forces the Earth and the fall							of gravity acting between the Earth and the falling	
water resistance	friction which acts on an object as it moves through water object can act at a distance object dentify the effects of a							object Identify the effects of air	
streamlined	an object that is shaped to travel through air or water with little resistance resistance and attract or repel each other and attract some materials and friction, that ac							resistance, water resistance and friction, that act	
buoyant	to float chain is pulled to lift or and not others between moving s							between moving surfaces Recognise that some	
upthrust	any force that is causing something to be pushed upwards together a variety of mechanisms include							mechanisms including levers, pulleys and gears	
friction	Levers are a bar that basis of whether they are allow a small							allow a smaller force to have a greater effect	
newton	the international metric unit of force identify some magnetic							-	
lever	a long arm that rests on a support called a fulcrum Describe magnets as having								
pulley	a wheel over which a	a belt, rope, or chair	n is pulled to lift or lower a heavy object		Gears are toothed		2 poles Predict whether 2		
	in Bush Primary School So				wheels that mesh together, they rotate in		magnets will attract or repel each other,		
	Knowledge Organiser adapted from the Developing Experts Science Scheme depending on which poles are facing								





