Year 5 9 Sc	nce		Forces	
What We Need To Know		Key Vocabulary and Phrases		
What is a A force is either: a push force? or a pull.	Air Low	Streamlined	A shape that presents least resistance to air or water	
What do Forces can make objects:	Resistance Speed	Surface	The top layer of something	
forces do? speed up, slow down, chan shape or change direction.	Gravity	Grip	To have a good connection with a surface	
Examples of Forces		Drag	To cause to slow down	
A lady is		Centre	The middle	
pushing a car	Buoyancy	Types of Forces		
to speed it up	Weight Drag	(Year 3) /	Magnets attract or repel each other or other objects Attract:	
A man is pulling a dog	Pushing torce		North and South attract whereas North and North or South and South will repel.	
to slow it down.		Resistance y	Air resistance slows down moving objects, because air slows you down as you move through it.	
A can is being squeezed	Friction		To travel faster through the air, things need to be streamlined.	
(pushed) so it changes shape.	Pesistance 25 kg	Resistance v	Water resistance slows down moving objects, because water slows you down as you move through it To travel faster through the water, things need to be	
The racket has			streamlined. Existion hanness when two surfaces touch each other	
hit (pushed) the ball to	Fukram		Friction happens when two surfaces touch each other. It gives us grip. It produces heat.	
change its direction.	Levers, pulleys and gears allow a smaller force to have a greater effect	F	Rougher surfaces slow objects down a lot whereas smoother surfaces do not slow objects down as much.	

Year 5 ? Science Working Scientifically – Forces					
Key Vocabulary and Phrases		What I could investigate	Equipment I could use		
ask questions	Use the question words What, where, when why, how	Does the size of surface area of	Weights for		
compare and contrast	Look at two or more objects and describe similarities (what is the same) and differences (what is different)	a parachute area affect the speed the object falls?	testing whether		
classify, sort and group	Organise objects by their features (e.g. colour, size, shape).		affected by		
diagram	A labelled picture		mass		
record data	Drawings, scientific diagrams, photos, classification keys, tables, bar graphs and line graph, writing and numbers are ways to show what I have found out.		Different materials,		
reporting and presenting findings	Civing reasons, explaining causes and relationships, explaining results and trusting its accuracy	Investigate the best surface	such as sand paper and		
For EXPLORING	low I could record my findings	area for a foil boat to float	aluminium foil to test how much friction is created through different materials.		
Use this if you want to tell the story of what you did or what you observed, e.g. bread going mouldy		Effort Load Fukrum	Water to test the buoyancy of different objects		