Forces (Year 3 and Year 5)

Forces					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		Compare how things move on different surfaces. Vocabulary- Magnetic Magnetic field		Identify the effects of air resistance, water resistance and friction, that act between moving surfaces Vocabulary- Types of forces: gravity, gravitational pull, buoyancy, streamlined, friction, air resistance, upthrust, weight, mass, push, pull, surface area	
		Notice that some forces need contact between two objects, but magnetic forces can act at a distance Vocabulary- Magnetic Magnetic field			
		Observe how magnets attract or repel each other and attract some materials and not others Vocabulary- Magnets – bar and horseshoe Attract, repel			
		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 Vocabulary- Magnetic Magnetic field			
		Describe magnets as having two poles Vocabulary- North and south poles			
		Predict whether two magnets will attract or repel each other, depending on which poles are facing. Vocabulary- North and south poles Magnets – bar and horseshoe Attract, repel			
				Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object. Vocabulary- Types of forces: gravity, air resistance, upthrust, weight, mass, gravitational pull, push, pull, surface area,	

				Measuring forces: Newton meter, Newtons (N), particles	
				Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect. Vocabulary- Measuring forces: Newton meter, Newtons (N), Particles, Balance Mass – grams and kilograms Mechanical devices – mechanisms, gears, levers, pulleys, springs	