Тор	lic: Forces	Year: 5		Strand: Physics
What should I already know?			Key vocabulary	
Similarities and differences between com- mon, everyday objects (EYFS) Compare how things move on different sur- faces (Y3) Notice that some forces need contact be- tween 2 objects, but magnetic forces can act at a distance (Y3) Observe how magnets attract or repel each other and attract some materials and not others (Y3) Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identi- fy some magnetic materials (Y3) Describe magnets as having 2 poles (Y3)		force	a push or a pull	
		gravity	a force that pulls objects back down	
		air resistance	a force that slows down moving ob- jects in the air	
		water resistance	a force that slows down moving ob- jects in water	
		friction	a force that gives us heat or grip when two forces touch	
		lever	a rigid bar resting on a <u>pivot</u>	
		mecha- nism	a piece of machinery	
		force me- ter	instruments designed to determine force	
What is a force?	A force is either a .	force is either a push or a pull force can speed up, slow down, hange shape and change direction of omething agnetism: Magnets attract or repel ach other or other objects	Newton meter	a piece of equipment that is used to measure the forces acting on an object
	change shape and		balance	a state of equilibrium, an equal force on both objects
What dif- ferent forces are there?	Magnetism: Magnet		mass	the amount of matter an object con- tains. The more matter something has, the more it will weigh
	Water resistance: 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 streamlined		float	to rest on the surface of or be sus- pended in a fluid
		stream lined	a shape that reduces friction drag between a fluid, such as air or wa- ter, and an object moving through it	
	down moving object slows you down as it. To travel faster y	tance: Air resistance slows ving objects, because air u down as you move through vel faster through the air,	surface	a surface is the outer layer of an object.
	things need to be s Friction: Friction has surfaces touch eac gives us grip. Fricti Rougher surfaces s lot. Smoother surface things down as mu	ppens when two h other. Friction on produces heat. low things down a ces don't slow		
What is gravity?	down towards the c Gravity stops thing away into space. When things go into football) gravity pu	s from floating 5 the air (like a		
How do mecha- nisms (levers) help us?		on a <u>pivot</u> , used to mly fixed load with		