The Hermitage School – Science				
Topic: Forces		Year: 5		Physics
What should I already know?			Vocabulary	
 Things can move differently on different surfaces. Know that some forces need contact between 2 objects, but magnetic forces can act at a distance. Gravity is force acting between the Earth and a falling object. 			Air Resistance: An opposing force for both falling objects and those moving on the ground. Balanced force: An object stays still or continues to move at the same speed and in the same direction.	
What will I know by the end?		r	Buoyancy: In water if the weight is equal to or less than the upthrust,	
 That unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object. Recognise that some mechanisms, including levers, pulleys, and gears allow a smaller force to have a greater effect. Identify the effects of friction, air resistance, and water resistance that acts between moving surfaces 	Effort Load Fulcrum		it floats. Things that float are buoyant. Force: A push or a pull. Friction: Resistance of motion when an object rubs against another. Fulcrum: The place where a lever pivots. Gear: Wheels with teeth that slot together. When one gear is turned, the other one turns as well. Gravity: The force pulling everything down towards the Earth's cen- tre Lever: A long, sturdy body that rests on a support called a fulcrum.	
			Machine: A device that make it easier to do work by increasing the	
	 Ca Pi Ex Ra Pi Id pa 	arry out tests to answer questions. redict the outcome. kplain how to make a fair test . ecord observations from experiments. resent findings verbally lentify scientific evidence used to sup- ort or refute ideas or arguments Y	force you can apply. Mechanism: A system of parts working together in a machine. Newton: The unit of force. Pulley: Made by looping a rope over one or more wheels. They are often used to lift heavy objects Teeth: Gears are wheels with teeth that slot together. Upthrust: The force that pushes an object up. Water Resistance: A force that tries to slow things down that are moving through water.	
			Gears	