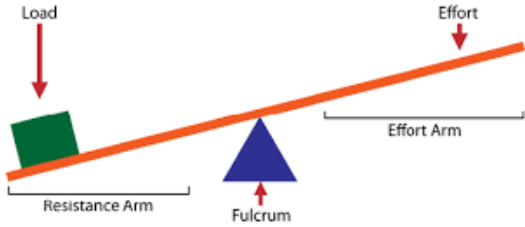
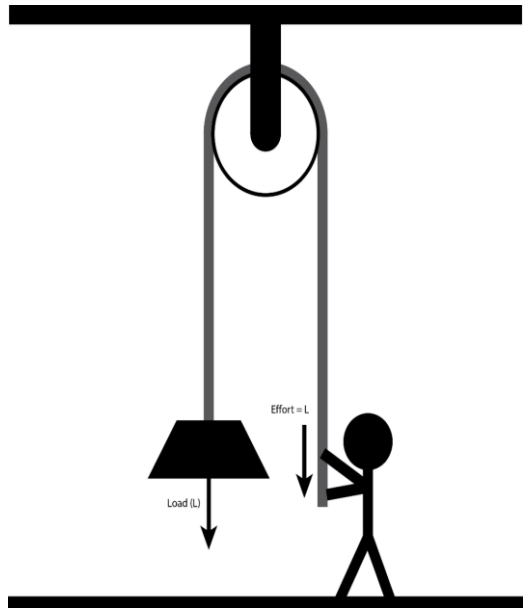


# Year 5: Science Forces & Movement Knowledge Mat

Subject Specific Vocabulary		Lifting a Load	Important knowledge
<b>friction</b>	Friction is a force, the resistance of motion when one object rubs against another.		<input type="checkbox"/> I know how gravity makes objects fall towards the Earth.
<b>accelerate</b>	To increase the speed or rate of an object.		<input type="checkbox"/> I know the effects of air resistance.
<b>decelerate</b>	To decrease the speed or rate of an object.		<input type="checkbox"/> I know the effects of water resistance.
<b>air resistance</b>	The frictional force air exerts against a moving object.		<input type="checkbox"/> I know the effect of friction between moving surfaces
<b>surface area</b>	A measurement of all the space that the surface of a three-dimensional shape takes up.	Pulley System	<input type="checkbox"/> I know that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect.
<b>pulley</b>	A simple machine that makes lifting something easier.		<input type="checkbox"/> I know when variables need to be controlled and can decide when a comparative or fair test is the best way to answer my question.
<b>lever</b>	A long, sturdy body that rests on a support called a fulcrum. The fulcrum is the place where the lever pivots		<input type="checkbox"/> I know how to write accurate conclusions which match the evidence.
<b>load</b>	The load is the object that is being lifted or affected. In a seesaw, whoever is being lifted up is the load.		<input type="checkbox"/> I can make suggestions of how to record my results.
<b>water resistance</b>	The frictional force water exerts against a moving object.		<input type="checkbox"/> I can find relationships in the data that I have collected.
<b>gravity</b>	An invisible force that pulls objects toward each other		<input type="checkbox"/> I know about cause and effect.
			<input type="checkbox"/> I know which secondary sources are most useful to research my ideas.
			<input type="checkbox"/> I know if my research has answered my question.