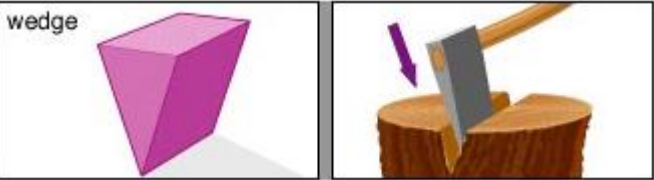
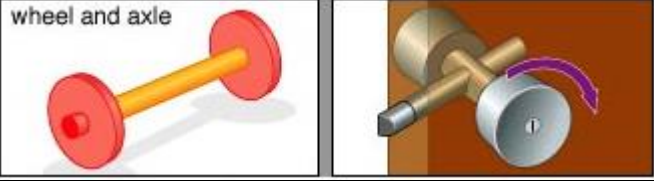
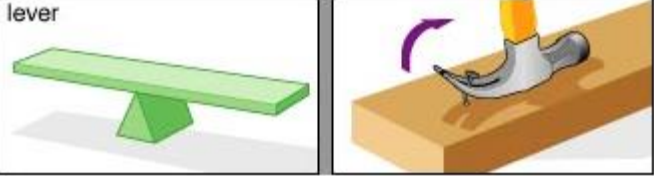

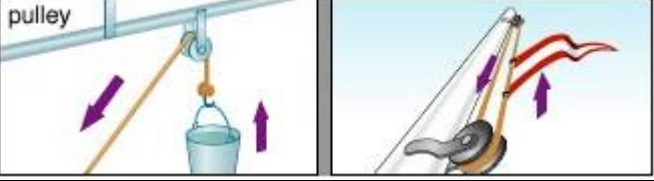
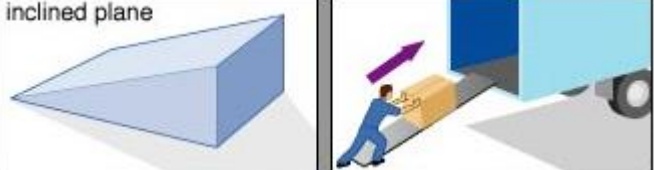


# Simple Machines Study Guide

<p style="text-align: center;">wedge</p>  <p>The left image shows a purple 3D wedge. The right image shows an axe with a purple arrow indicating downward force, splitting a log.</p>	<p>two inclined planes, back to back, that is used to split things apart</p>
<p style="text-align: center;">wheel and axle</p>  <p>The left image shows a red wheel on a yellow axle. The right image shows a pulley system with a purple arrow indicating rotation.</p>	<p>a wheel secured to a shaft called an axle.</p>
<p style="text-align: center;">lever</p>  <p>The left image shows a green seesaw on a green fulcrum. The right image shows a hammer with a purple arrow indicating rotation around a fulcrum.</p>	<p>force on one side of this machine makes the other side of the machine do work</p>
<p style="text-align: center;">screw</p>  <p>The left image shows a blue screw. The right image shows a jar lid with a purple arrow indicating rotation.</p>	<p>has a spiraling inclined plane (thread) that is twisted to hold objects together</p>
<p style="text-align: center;">pulley</p>  <p>The left image shows a pulley system lifting a bucket. The right image shows a crane with a pulley system.</p>	<p>a rope over a wheel that changes the direction of the force you use</p>
<p style="text-align: center;">inclined plane</p>  <p>The left image shows a blue ramp. The right image shows a person pushing a box up a ramp.</p>	<p>a simple machine that helps move a load to a higher place.</p>

**Fulcrum:** the point on a lever between the effort and the load

**Force:** the push or pull that moves a load

**Work:** When force moves an object.

**Motion:** A change in position.

**Speed:** the measure of how fast something moves over a certain distance.

**Weight:** the measure of the pull of gravity on an object.

**Gravity:** the force that pulls objects towards each other. The more mass two objects have, the more gravity pulls them toward each other.

**Compound Machine:** A machine made of two or more simple machines.