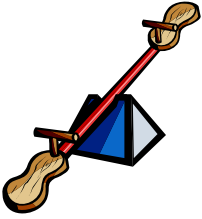





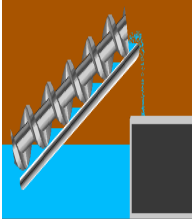

Gadget Research

(Teacher note: Save this page as a key. Then, it can be used as an assignment sheet by deleting the sample responses.)

Name: _____

Date: _____

Simple Machine		
LEVER	INCLINED PLANE	WHEEL AND AXLE
A lever is an arm that turns against a point (fulcrum). There are three classes of levers. You can tell what kind, depending on the position of the fulcrum.	A straight, slanted surface allows a load to be moved over a longer distance, so less force is required.	A wheel is fixed to a shaft or axle, and they move together. Sometimes, the wheel has a crank or handle.
Example Picture or Diagram		
 Seesaw	 Roller Coaster	 Windmill
Citation		
Edheads: Activate Your Mind http://www.edheads.org/activities/simple-machines/	Mikids: Simple Machines http://mikids.com/Smachines.htm	

Simple Machine		
WEDGE	SCREW	PULLEY
<p>A wedge turns an inclined plane down and uses it to push things apart. A wedge is basically two inclined planes set back-to-back.</p>	<p>A screw works by moving a load across a spiraling inclined plane. The screw on a piano stool lets the seat go up or down. Often a lever, like a screwdriver, works to give force to the screw.</p>	<p>In a pulley, a cord moves up or down easily over a wheel. If you attach something to the cord, it can be moved up or down. With a pulley, you trade force for distance, making work easier.</p>
Example Picture or Diagram		
 <p>Axe</p>	 <p>Archimedes' Water Screw</p>	 <p>Flagpole</p>
Citation		
<p>The Franklin Institute: Online Simple Machines http://sln.fi.edu/qa97/spotlight3/spotlight3.html</p>	<p>Edheads: Activate your Mind http://edheads.org/activities/simple-machines</p>	<p>Franklin Institute Online: Simple Machines http://sln.fi.edu/qa97/spotlight3/spotlight3.html</p>