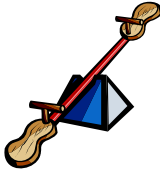

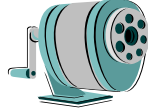

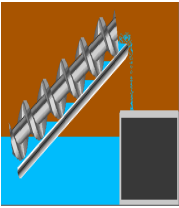



## Gadget Research

(Note to the teacher: 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
<i>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.</i>	<i>A straight, slanted surface allows a load to be moved over a longer distance, so less force is required.</i>	<i>A wheel is fixed to a shaft or axle and they move together. Sometimes the wheel has a crank or handle.</i>
Example Picture or Diagram		
 <i>seesaw</i>	 <i>boat ramp</i>	 <i>pencil sharpener</i>
Citation		
Edheads: Activate your Mind <a href="http://edheads.org/activities/simple-machines/index.htm">http://edheads.org/activities/simple-machines/index.htm</a> *	Work is Simple with Simple Machines <a href="http://www.ed.uri.edu/SMART96/ELEMSC/SMARTmachines/machine.html">www.ed.uri.edu/SMART96/ELEMSC/SMARTmachines/machine.html</a> *	The Franklin Institute Online Simple Machines <a href="http://sln.fi.edu/qa97/spotlight3/spotlight3.html">http://sln.fi.edu/qa97/spotlight3/spotlight3.html</a> *
Simple Machine		
WEDGE	SCREW	PULLEY
<i>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.</i>	<i>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.</i>	<i>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.</i>
Example Picture or Diagram		
 <i>axe</i>	 <i>Archimedes' water screw</i>	 <i>flagpole</i>
Citation		
The Franklin Institute Online Simple Machines <a href="http://sln.fi.edu/qa97/spotlight3/spotlight3.html">http://sln.fi.edu/qa97/spotlight3/spotlight3.html</a> *	Edheads: Activate your Mind <a href="http://edheads.org/activities/simple-machines/index.htm">http://edheads.org/activities/simple-machines/index.htm</a> *	Franklin Institute Online Simple Machines <a href="http://sln.fi.edu/qa97/spotlight3/spotlight3.html">http://sln.fi.edu/qa97/spotlight3/spotlight3.html</a> *