

How well do you know your Simple Machines? Complete both sides of this chart:

	Define It (What is it?)	Describe It (What does it do?)	What happens to the force? (Explain your answer)	Distinguish It (Give an 1840's example from the museum and explain why it is a simple machine)	Distinguish It (Give a 2020 example and explain why it is a simple machine)
Pulley	<i>Made of a wheel and rope, used to lift objects</i>	<i>Object is tied to rope, rope passes through a pulley, Pull the other end of the rope to lift</i>	<ul style="list-style-type: none"> <li>• <i>Changes Distance</i></li> <li>• <i>Changes Direction</i></li> </ul>	<i>Block and Tackle</i>	<i>Flagpole, Tow Truck, Home Gym</i>
Lever	<i>A bar that pivots over a fixed point, used to pry or lift things</i>	<i>A plank set on a pivot</i>	<ul style="list-style-type: none"> <li>• <i>Increases Force</i></li> <li>• <i>Changes Direction</i></li> </ul>	<i>Washington Printing Press</i>	<i>See-Saw, Wheelbarrow, Pry Bar, Scissors, Hammer, Nail Clippers</i>
Wedge	<i>Used to cut or split an object</i>	<i>A triangle – Back to back inclined planes</i>	<ul style="list-style-type: none"> <li>• <i>Changes Direction</i></li> </ul>	<i>Axe</i>	<i>Axe, Scissors, Knife, Shovel, Chisel</i>

Inclined Plane	<i>Flat surface with one end higher than the other, used to lift things</i>	<i>A ramp - No moving parts</i>	<ul style="list-style-type: none"> <li>• <i>Changes Distance</i></li> </ul>	<i>Stairs</i>	<i>Ramp, Stairs, Ladder, Slide</i>
Wheel & Axle	<i>Has a center rod attached to a wheel, used to move things</i>	<i>A disk mounted on a cylinder</i>	<ul style="list-style-type: none"> <li>• <i>Increases Force</i></li> </ul>	<i>Wagon Wheel</i>	<i>Doorknob, Hinge, Wheelchair, Handcart, Shopping Cart, Bicycle, Pizza Cutter, Pencil Sharpener</i>
Screw	<i>An inclined plane wrapped around a cylinder, used to hold things together</i>	<i>A threaded cylinder</i>	<ul style="list-style-type: none"> <li>• <i>Changes Distance</i></li> </ul>	<i>Fruit Press Cheese Press</i>	<i>Bolt, Jar Lid, Vise, Adjustable Wrench, C-Clamp, Light Bulb, Corkscrew, Vending Machine</i>