



Learn: Simple Machines

What You'll Need:

- This checklist
- Pencil or pen
- Optional: Camera or cell phone to take pictures of your discoveries



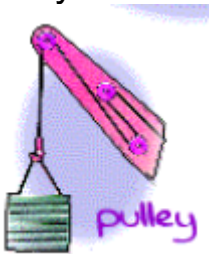
Procedure:

Print or copy the checklist from Science Meri on pages 2 and 3 so you can take it with you as you hunt for simple machines. With your parent or guardian's approval, look around your home or when you're outside to spot examples!

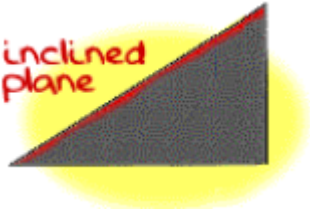


The Science Behind It:

What are simple machines? Well, have you ever had to lift something really heavy, or move something a long distance away? Simple Machines can help by making it easier! The amount of energy it takes to do something, like move a big rock, is called force. If I moved a rock from one place to another it would take a lot of force for me to move it, which is called resistance. However, if I used a simple machine, like the wheel and axle on a wheel barrow, it takes less energy from me to move it! That's because the wheelbarrow is helping me move the rock from one place to another. When a simple machine helps you, we call it mechanical advantage.



Simple Machine	What are its characteristics?	What did you find?
<p>Lever</p> 	<ul style="list-style-type: none">• Bar or board• Rests on support (also called fulcrum)• Lifts heavy weights with small push	
<p>Wheel and Axle</p> 	<ul style="list-style-type: none">• Circle and rod together• Easier to move heavy objects• Move things or people quickly	
<p>Pulley</p> 	<ul style="list-style-type: none">• Circle and rope• Can use more than one• Makes lifting things long distances easy	



Simple Machine	What are its characteristics?	What did you find?
<p>Inclined Plane</p> 	<ul style="list-style-type: none">• Sloping surface• Easier to move heavy objects	
<p>Wedge</p> 	<ul style="list-style-type: none">• Thick to thin edge• Usually made of wood or metal• Easily splits objects	
<p>Screw</p> 	<ul style="list-style-type: none">• Round with a continuous groove (a thread)•	

Sources

<https://www.britannica.com/technology/simple-machine>

<https://pulleys.weebly.com/wheel-and-axle.html>

<https://pulleys.weebly.com/screw.html>