



# Learn: Simple Machines

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## What You'll Need:

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

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## Procedure:



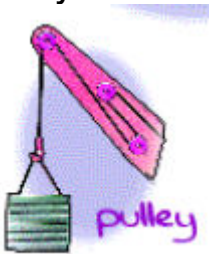
Print or copy the checklist from Science Meri on pages 2 and 3 so you can take it with you as you hunt for simple machines. With your parent or guardian's approval, look around your home or when you're outside to spot examples!

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



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

Sources

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

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

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