

# Six Simple Machines

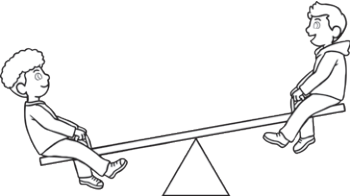
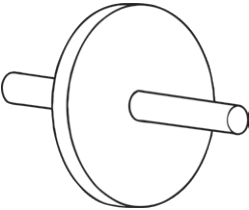
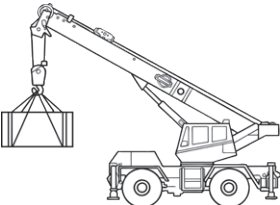
A simple machine changes the direction or size of a force.


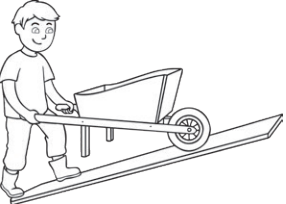
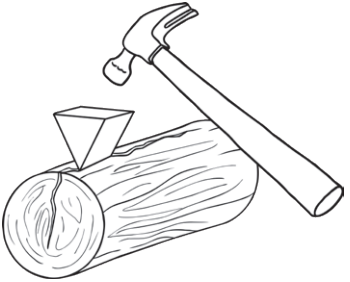
It makes it much easier to pull or push something over a longer distance.

Use the word bank below to complete the examples of the six simple machines.

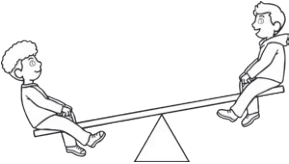
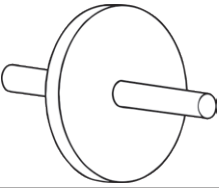
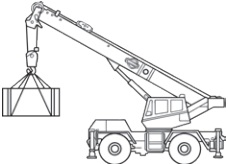

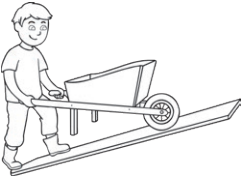
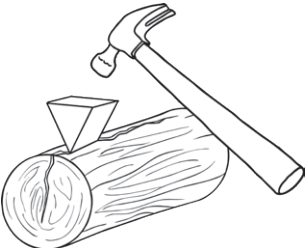
## Word Bank

screws	lever	inclined plane	see-saws
wheel and axle	wedge	cranes	pulley
drill	axes	slides	doorknobs

Machine	Example
	<ul style="list-style-type: none"><li>• oars</li><li>• wheelbarrows</li><li>• _____</li><li>• fishing rods</li><li>• scissors</li></ul>
	<ul style="list-style-type: none"><li>• skateboards</li><li>• _____</li><li>• rollerblades</li></ul>
	<ul style="list-style-type: none"><li>• _____</li><li>• wells</li><li>• elevators</li></ul>

 _____	<ul style="list-style-type: none"><li>• jar lid</li><li>• tap</li><li>• _____</li><li>• end of lightbulb</li></ul>
 _____	<ul style="list-style-type: none"><li>• _____</li><li>• ladder</li><li>• ramps</li></ul>
 _____	<ul style="list-style-type: none"><li>• _____</li><li>• staples</li><li>• nails</li><li>• doorstops</li></ul>

# Six Simple Machines **Answers**

Machine	Example
 <b>Lever</b>	<ul style="list-style-type: none"> <li>• oars</li> <li>• wheelbarrows</li> <li>• <b>see-saws</b></li> <li>• fishing rods</li> <li>• scissors</li> </ul>
 <b>Wheel and axle</b>	<ul style="list-style-type: none"> <li>• skateboards</li> <li>• <b>doorknobs</b></li> <li>• rollerblades</li> </ul>
 <b>Pulley</b>	<ul style="list-style-type: none"> <li>• <b>cranes</b></li> <li>• wells</li> <li>• elevators</li> </ul>
 <b>Screw</b>	<ul style="list-style-type: none"> <li>• jar lid</li> <li>• tap</li> <li>• <b>drills</b></li> <li>• end of lightbulb</li> </ul>
 <b>Inclined plane</b>	<ul style="list-style-type: none"> <li>• <b>slides</b></li> <li>• ladder</li> <li>• ramps</li> </ul>
 <b>Wedge</b>	<ul style="list-style-type: none"> <li>• <b>axes</b></li> <li>• staples</li> <li>• nails</li> <li>• doorstops</li> </ul>

# Six Simple Machines

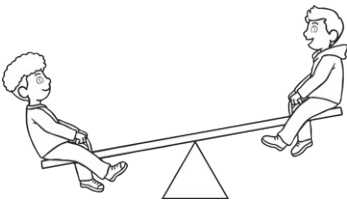
A simple machine changes the direction or size of a force.

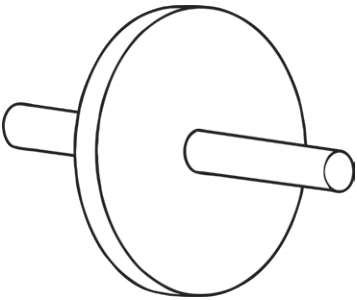
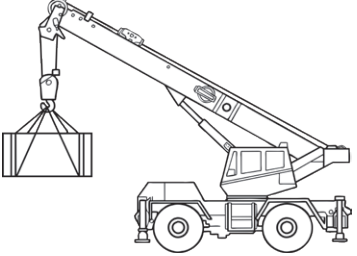

It makes it much easier to pull or push something over a longer distance.

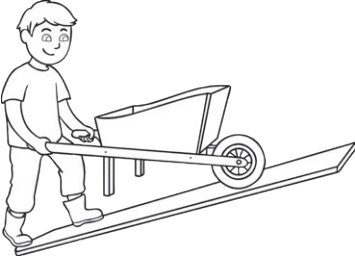
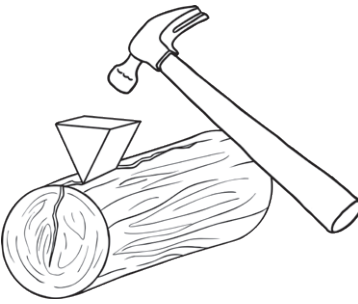
Use the word bank below to complete the examples of the six simple machines.

## Word Bank

triangular	slides	move	effort	axes
wheel	drill	separate	less	lifted
higher	machines	fulcrum	sloping	doorstops
see-saws	doorknobs	carry	lever	loads

Machine	Description
 Lever	<p>This machine has a movable bar that rests on a solid point called a _____. A _____ has four important parts: the bar, the fulcrum (pivot point), the effort and the load.</p> <ul style="list-style-type: none"><li>• _____</li><li>• oars</li><li>• wheelbarrows</li><li>• scissors</li><li>• fishing rods</li></ul>

 <p>Wheel and axle</p>	<p>This is the most common of the simple _____. Two objects joined together at the centre that rotate together. One part cannot work without the other. Force is used to turn one part, which then makes the other part turn. Used to _____ loads around for long distances with _____ effort.</p> <ul style="list-style-type: none"> <li>• skateboards</li> <li>• _____</li> </ul>
 <p>Pulley</p>	<p>A rope or chain with a _____ and axle attached. Using it means that heavy _____ can be _____ without much _____.</p> <ul style="list-style-type: none"> <li>• elevators</li> <li>• cranes</li> <li>• wells</li> </ul>
 <p>Screw</p>	<p>Allows something to _____ from a lower position to higher position by moving it in a circle. It is a tube with a thread that spirals around the outside.</p> <ul style="list-style-type: none"> <li>• jar lid</li> <li>• tap</li> <li>• _____</li> <li>• end of a lightbulb</li> </ul>

 <p>Inclined plane</p>	<p>Inclined means _____. This machine has one end that is lower than the other end. This allows things to travel from the _____ end to the lower end, or vice versa, with little effort.</p> <ul style="list-style-type: none"><li>• _____</li><li>• ladder</li><li>• ramps</li></ul>
 <p>Wedge</p>	<p>Can be used to _____ an object. It is usually _____ shaped. They can also hold things together and stop them from moving.</p> <ul style="list-style-type: none"><li>• _____</li><li>• staples</li><li>• nails</li><li>• _____</li></ul>

# Six Simple Machines **Answers**

Machine	Description
Lever	<p>This machine has a movable bar that rests on a solid point called a <b>fulcrum</b>. A <b>lever</b> has four important parts: the bar, the fulcrum (pivot point), the effort and the load.</p> <ul style="list-style-type: none"><li>• <b>see-saws</b></li><li>• oars</li><li>• wheelbarrows</li><li>• scissors</li><li>• fishing rods</li></ul>
Wheel and axle	<p>This is the most common of the simple <b>machines</b>. Two objects joined together at the centre that rotate together. One part cannot work without the other. Force is used to turn one part, which then makes the other part turn. Used to <b>carry</b> loads around for long distances with <b>less</b> effort.</p> <ul style="list-style-type: none"><li>• skateboards</li><li>• <b>doorknobs</b></li></ul>
Pulley	<p>A rope or chain with a <b>wheel</b> and axle attached. Using it means that heavy <b>loads</b> can be <b>lifted</b> without much <b>effort</b>.</p> <ul style="list-style-type: none"><li>• elevators</li><li>• cranes</li><li>• wells</li></ul>

Screw	<p>Allows something to <b>move</b> from a lower position to higher position by moving it in a circle. It is a tube with a thread that spirals around the outside.</p> <ul style="list-style-type: none"><li>• jar lid</li><li>• tap</li><li>• <b>drill</b></li><li>• end of a lightbulb</li></ul>
Inclined plane	<p>Inclined means <b>sloping</b>. This machine has one end that is lower than the other end. This allows things to travel from the <b>higher</b> end to the lower end, or vice versa, with little effort.</p> <ul style="list-style-type: none"><li>• <b>slides</b></li><li>• ladder</li><li>• ramps</li></ul>
Wedge	<p>Can be used to <b>separate</b> an object. It is usually <b>triangular</b> shaped. They can also hold things together and stop them from moving.</p> <ul style="list-style-type: none"><li>• <b>axes</b></li><li>• staples</li><li>• nails</li><li>• <b>doorstops</b></li></ul>



# Six Simple Machines

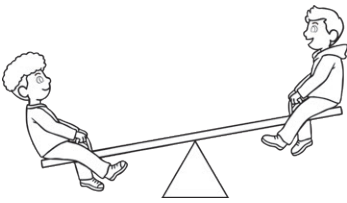
A simple machine changes the direction or size of a force.

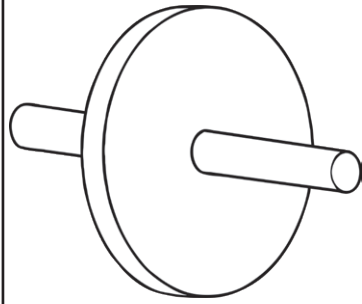
It makes it much easier to pull or push something over a longer distance.

Use the word bank below to complete the examples of the six simple machines.

## Word Bank

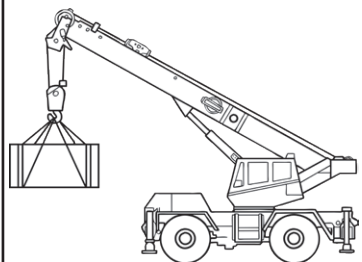
triangular	slides	inclined	effort	doorstops
wheel	common	separate	less	lifted
higher	machines	fulcrum	sloping	move
see-saws	doorknobs	carry	lever	inclined plane
wheel and axle	wedge	pulley	loads	axes
bottle opener	elevators	chisel	screw	drill

Machine	Example
 Lever	<p>This machine has a movable bar that rests on a solid point called a _____. A _____ has four important parts: the bar, the fulcrum (pivot point), the effort and the load.</p> <ul style="list-style-type: none"><li>• _____</li><li>• oars</li><li>• _____</li><li>• scissors</li><li>• fishing rods</li></ul>



This is the most \_\_\_\_\_ of the simple \_\_\_\_\_.  
Two objects joined together at the centre that rotate together. One part cannot work without the other. Force is used to turn one part, which then causes the other part to turn. Used to \_\_\_\_\_ loads around for long distances with \_\_\_\_\_ effort.

- skateboards
- \_\_\_\_\_



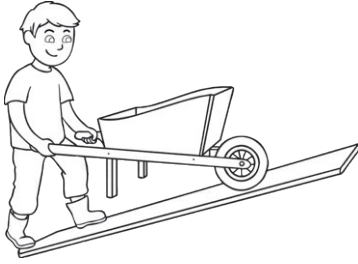
A rope or chain with a \_\_\_\_\_ and axle attached.  
Using it means that heavy \_\_\_\_\_ can be \_\_\_\_\_ without much \_\_\_\_\_.

- \_\_\_\_\_
- cranes
- wells



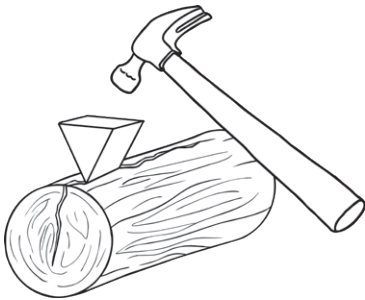
Allows something to \_\_\_\_\_ from a lower position to higher position by moving it in a circle. It is an inclined plane wrapped around a tube.

- jar lid
- tap
- \_\_\_\_\_
- end of a lightbulb



\_\_\_\_\_ means \_\_\_\_\_. This machine has one end that is lower than the other end. This allows things to travel from the \_\_\_\_\_ end to the lower end, or vice versa, with little effort.

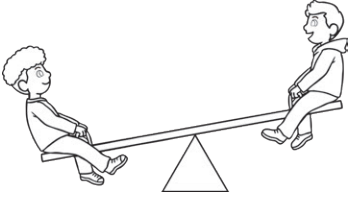
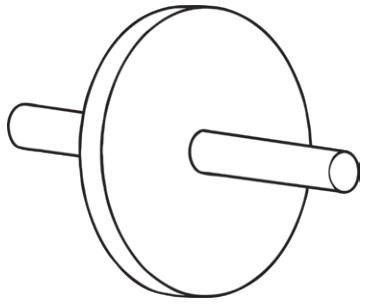
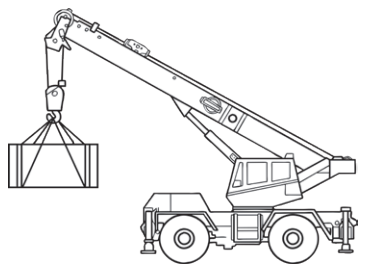

- \_\_\_\_\_
- ladder
- ramps

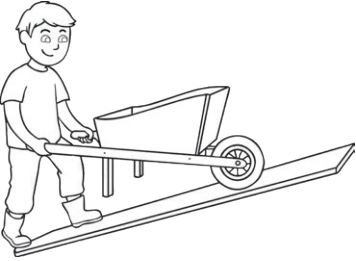
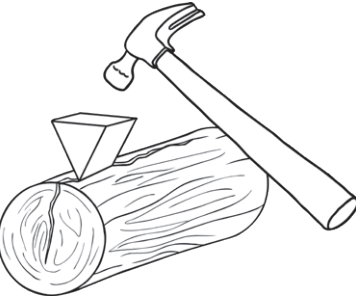


Can be used to \_\_\_\_\_ an object. It is usually \_\_\_\_\_ shaped. They can also hold things together and stop them from moving.

- \_\_\_\_\_
- staples
- nails
- \_\_\_\_\_
- \_\_\_\_\_

# Six Simple Machines Answers

Machine	Example
 <p>Lever</p>	<p>This machine has a movable bar that rests on a solid point called a <b>fulcrum</b>. A <b>lever</b> has four important parts: the bar, the fulcrum (pivot point), the effort and the load.</p> <ul style="list-style-type: none"> <li>• <b>see-saws</b></li> <li>• oars</li> <li>• <b>bottle opener</b></li> <li>• scissors</li> <li>• fishing rods</li> </ul>
 <p>Wheel and axle</p>	<p>This is the most <b>common</b> of the simple <b>machines</b>. Two objects joined together at the centre that rotate together. One part cannot work without the other. Force is used to turn one part, which then causes the other part to turn. Used to <b>carry</b> loads around for long distances with <b>less</b> effort.</p> <ul style="list-style-type: none"> <li>• skateboards</li> <li>• <b>doorknobs</b></li> </ul>
 <p>Pulley</p>	<p>A rope or chain with a <b>wheel</b> and axle attached. Using it means that heavy <b>loads</b> can be <b>lifted</b> without much <b>effort</b>.</p> <ul style="list-style-type: none"> <li>• <b>elevators</b></li> <li>• cranes</li> <li>• wells</li> </ul>
 <p>Screw</p>	<p>Allows something to <b>move</b> from a lower position to higher position by moving it in a circle. It is an inclined plane wrapped around a tube.</p> <ul style="list-style-type: none"> <li>• jar lid</li> <li>• tap</li> <li>• <b>drill</b></li> <li>• end of a lightbulb</li> </ul>

 <p><b>Inclined plane</b></p>	<p><b>Inclined</b> means <b>sloping</b>. This machine has one end that is lower than the other end. This allows things to travel from the <b>higher</b> end to the lower end, or vice versa, with little effort.</p> <ul style="list-style-type: none"><li>• <b>slides</b></li><li>• ladder</li><li>• ramps</li></ul>
 <p><b>Wedge</b></p>	<p>Can be used to <b>separate</b> an object. It is usually <b>triangular</b> shaped. They can also hold things together and stop them from moving.</p> <ul style="list-style-type: none"><li>• <b>axes</b></li><li>• staples</li><li>• nails</li><li>• <b>chisel</b></li><li>• <b>doorstops</b></li></ul>