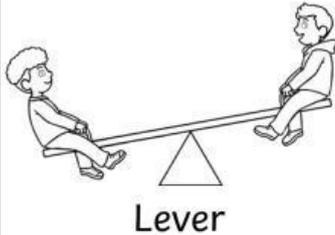# Six Simple Machines

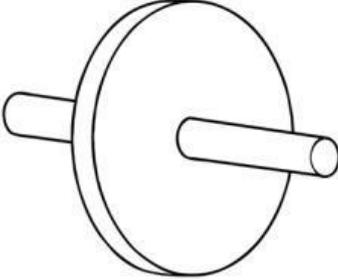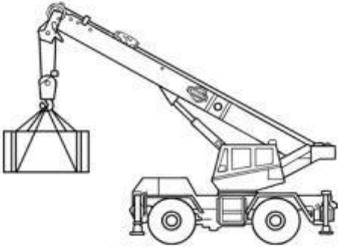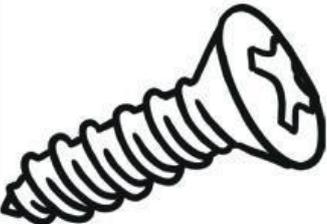A simple machine changes the direction or size of a force.

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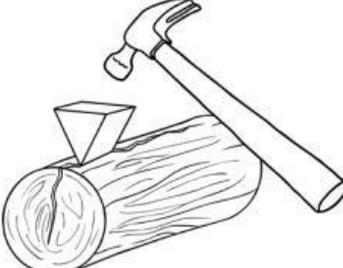
| | | | | |
|---|---|---|---|---|
| triangular | slides | move | effort | axes |
| wheel | drill | separate | less | lifted |
| higher | machines | fulcrum | sloping | doorstops |
| see-saws | doorknobs | carry | lever | loads |

| Machine | Description |
|---|---|
| Lever | 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. <br><br> • _____ <br><br> • oars <br> • wheelbarrows <br> • scissors <br> • fishing rods |

| | |
|---|---|
| Wheel and axle | 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.<br><br>• skateboards<br><br>• _____ |
| Pulley | A rope or chain with a _____ and axle attached. Using it means that heavy _____ can be _____ without much _____.<br><br>• elevators<br>• cranes<br>• wells |
| Screw | 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.<br><br>• jar lid<br>• tap<br>• _____<br>• end of a lightbulb |

| | |
|---|---|
| Inclined plane | 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.<br><br>• _____<br><br>• ladder<br><br>• ramps |
| Wedge | Can be used to _____ an object. It is usually _____ shaped. They can also hold things together and stop them from moving.<br><br>• _____<br><br>• staples<br><br>• nails<br><br>• _____ |