

Different Types Of Simple Machines

A machine is anything that makes our lives easier. From a small pair of scissors to the see-saw in the park, we make use of several machines in our daily lives.

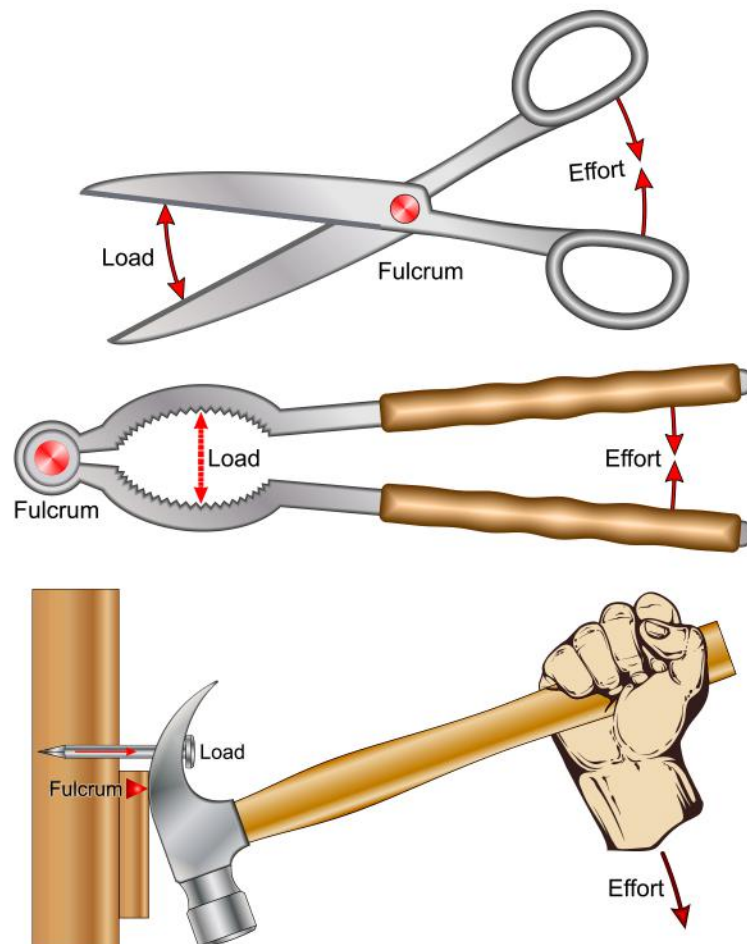
In this worksheet, we discuss the six types of simple machines. It is important to note that all big, complex machines are made using a combination of these simple machines.

The following are the six types of simple machines:

1. Lever

A lever is a rigid bar that rests on a fixed point, known as a fulcrum. It can be used to either cut things or move objects.

See-saw, nutcracker, scissors, etc. are examples of a lever.



2. Inclined plane

An inclined plane is a flat supporting surface that is tilted at an angle. It is also called a ramp and is used to raise or lower loads.

Examples: *Wheelchair ramps, skateboard ramps, etc.*



3. Pulley

A pulley is a grooved wheel with a rope that passes through the groove. It is used to lower or lift heavy objects. There are three types of pulleys: fixed, movable, and compound.

Examples: *Elevator, crane, well wheel, etc.*



4. Screw

A pulley is a grooved wheel with a rope that passes through the groove. It is used to lower or lift heavy objects. There are three types of pulleys: fixed, movable, and compound.

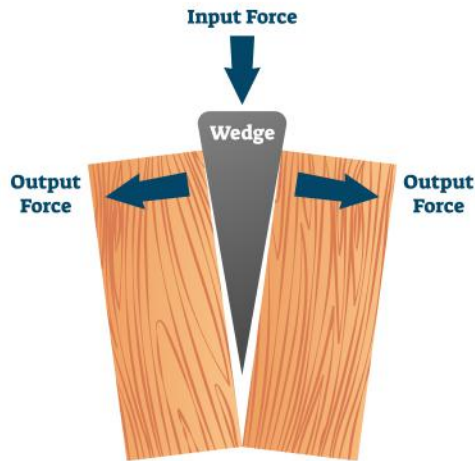
Examples: *Wall screw, jar lid, light bulb, etc.*



5. Wedge

It is a triangular-shaped device made of wood, metal, or plastic. It is thick on one side and has a triangular tapering on the other end. The sharp tapering end is used to split objects.

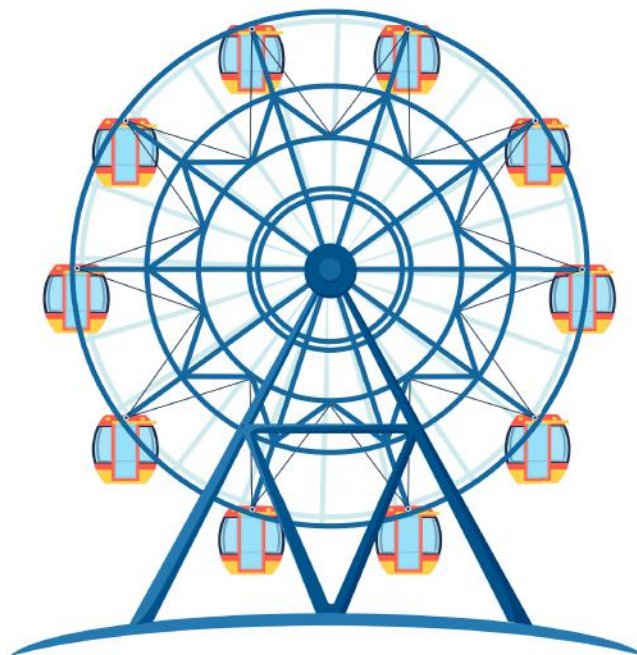
Examples: *Fork, knife, an axe, etc.*



6. Wheel and axle

A wheel and axle consist of a wheel and a rod that passes through the center of the wheel.

Examples: *Spinning wheel, Ferris wheel, etc.*



Match the type of lever with the correct image by drawing a line:

Lever



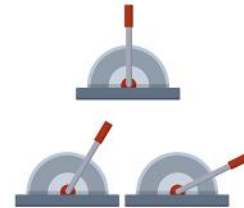
Inclined plane



Pulley



Screw



Wedge



Wheel and axle

