

# VOCABULARY

**MACHINES:** inventions that help us to carry out a task (do an activity) with less effort. Machines can be classified in two ways:

## 1. REGARDING THE NUMBER OF COMPONENTS:

### 1.1. SIMPLE MACHINES:

machines made from one or two components.

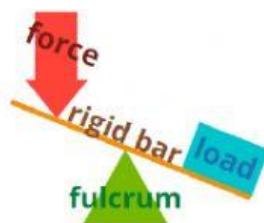
- **Wheel:** a circular object that rotates around a central axle. It is used to move objects along the ground.



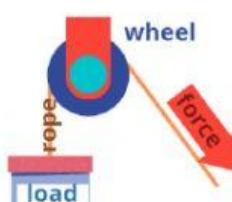
- **Inclined plane (ramp):** a surface that is set at an angle. It is used to move heavy objects along the smooth surface.



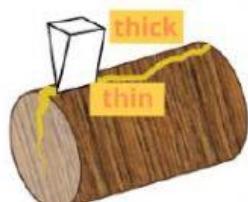
- **Lever:** a long bar that moves up and down over a fixed point (the fulcrum). It allows someone to lift and lower objects more easily.



- **Pulley:** a rope and a wheel system used to lower and raise heavy objects.



- **Wedge:** a piece of wood or metal that is thin at one end and thicker at the other. It is used to break something apart.



- **Screw:** small piece of metal that turn around to hold something in a place.



**1.2. COMPLEX MACHINES:** machines made from many components that work together.

**2. ACCORDING THE POWER SOURCE:**

- **Manual energy:** energy from animals or humans.

Examples: scissors and bicycle use manual energy.



- **Thermal energy:** power from burning fuels.

Examples: cars and motorcycles use thermal energy.



- **Electrical energy:** energy from electricity.

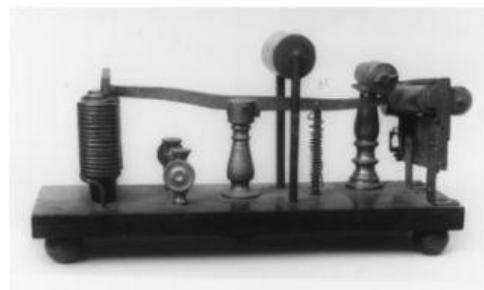
Examples: TV and mobile phones use electrical energy.



Along history, **new inventions** have changed the way people live.



**PRINTING PRESS:** it reproduces books. Before its invention, people copy books by hand.



**TELEGRAPH:** it sends messages using either wires and electricity or radio.



**STEAM ENGINE:** it uses the energy of steam to move machines.



**RADIO:** means of communication tells us what is happening around the world.

## ICONS USED IN THIS GLOSSARY



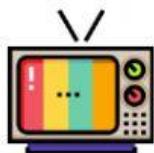
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