

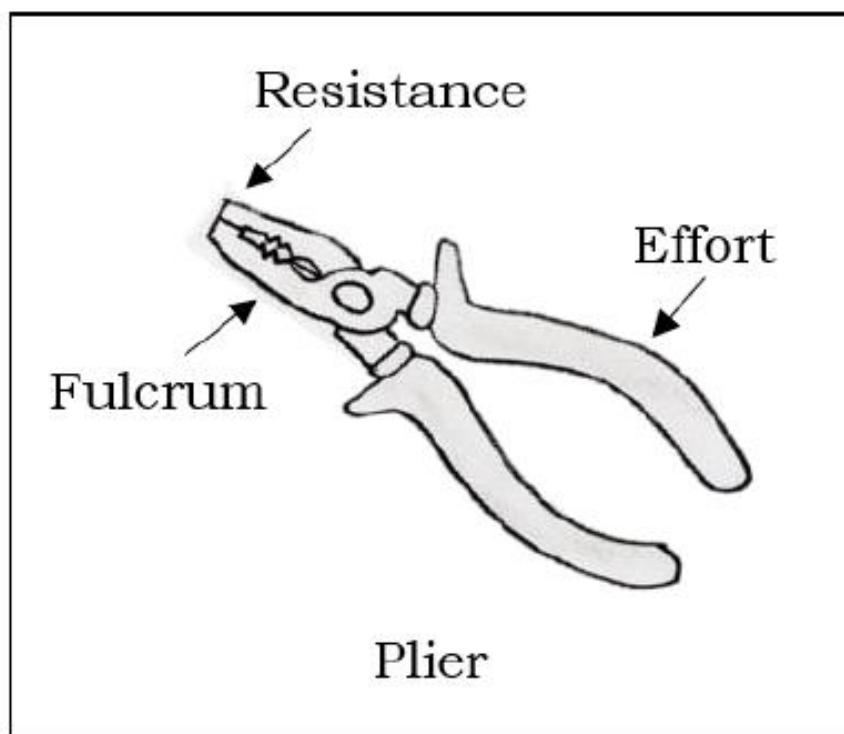
SCIENCE 6

QUARTER 3 WEEK 8

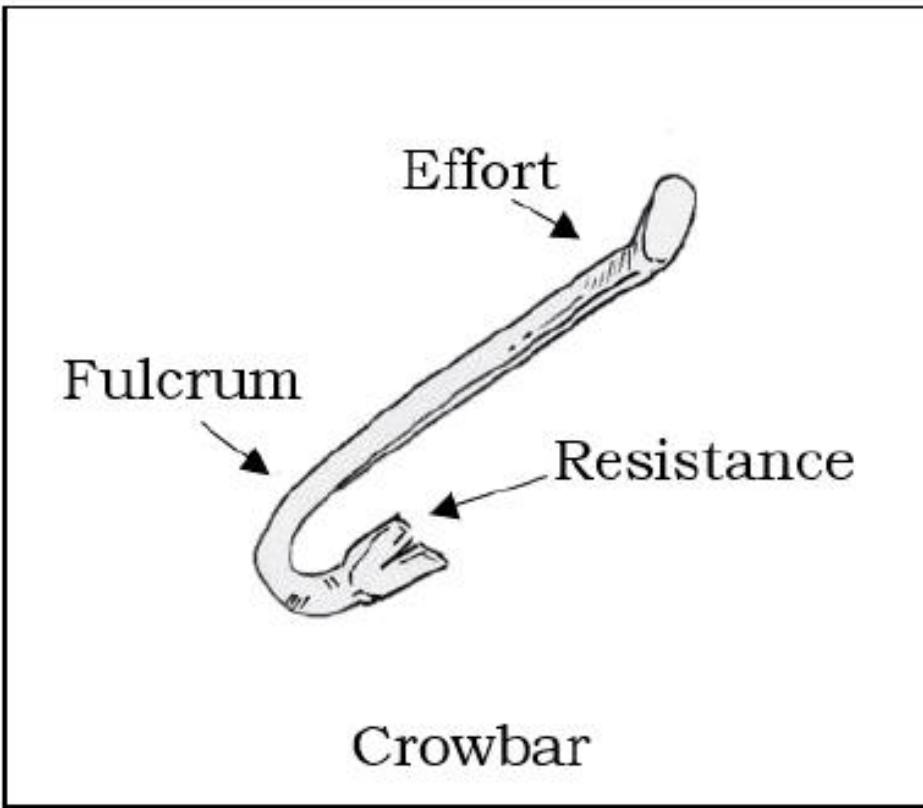
LEVER

First Class Lever. The fulcrum is placed anywhere between the effort applied and the resistance or weight to be moved. The effort and resistance move in opposite directions (Mendoza & de Guzman Jr. 2015).

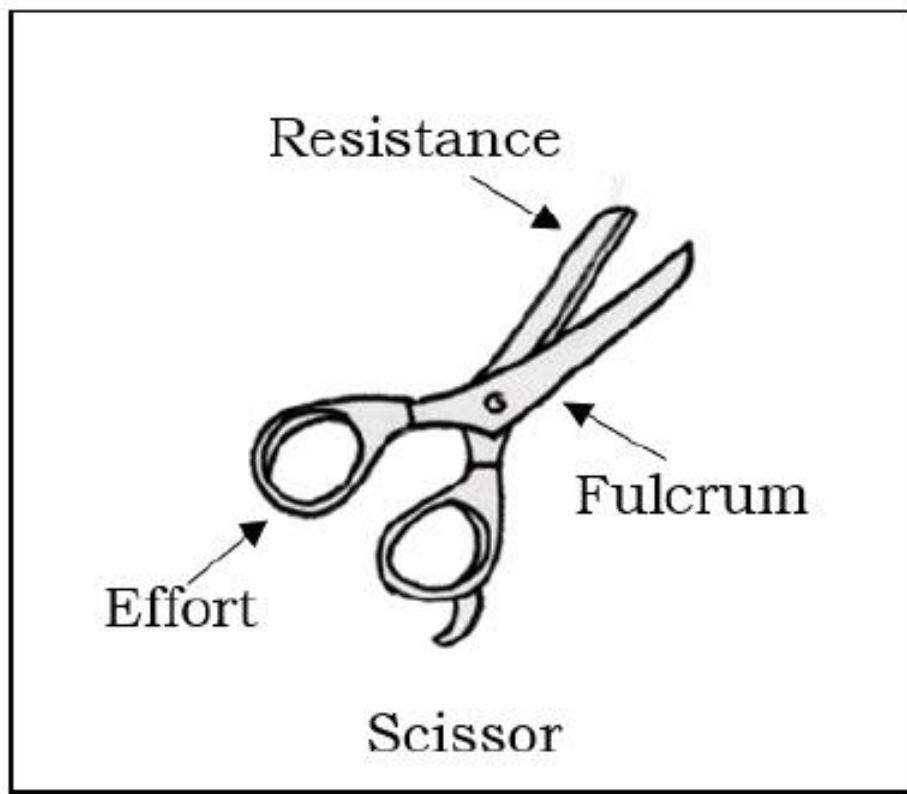
The following are examples of first-class lever.



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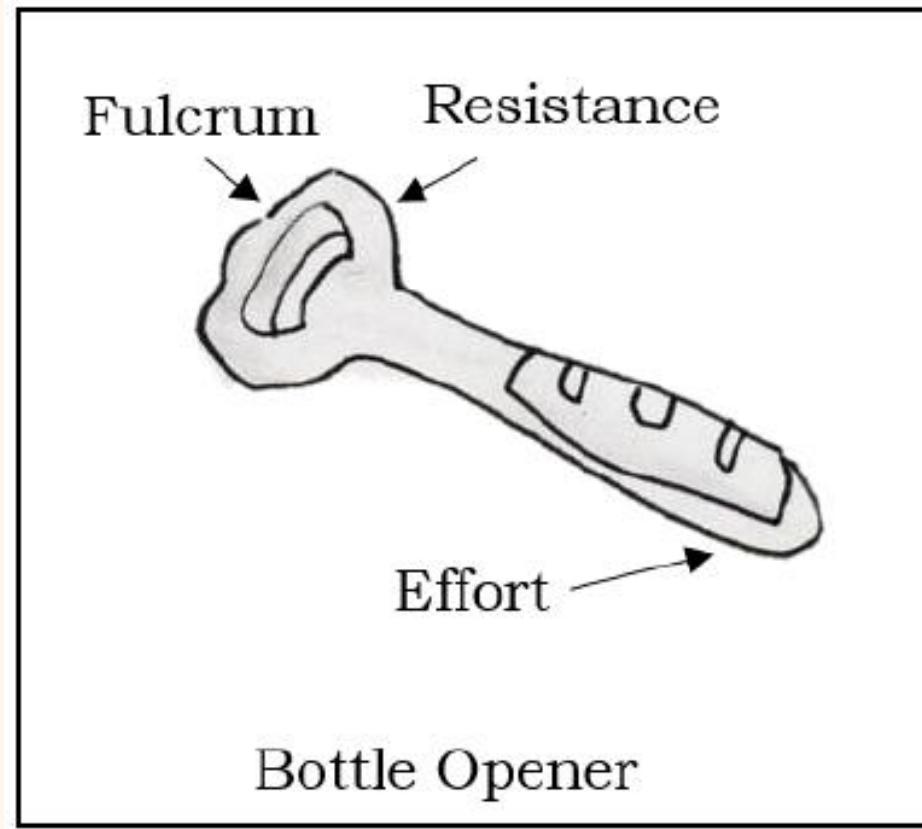


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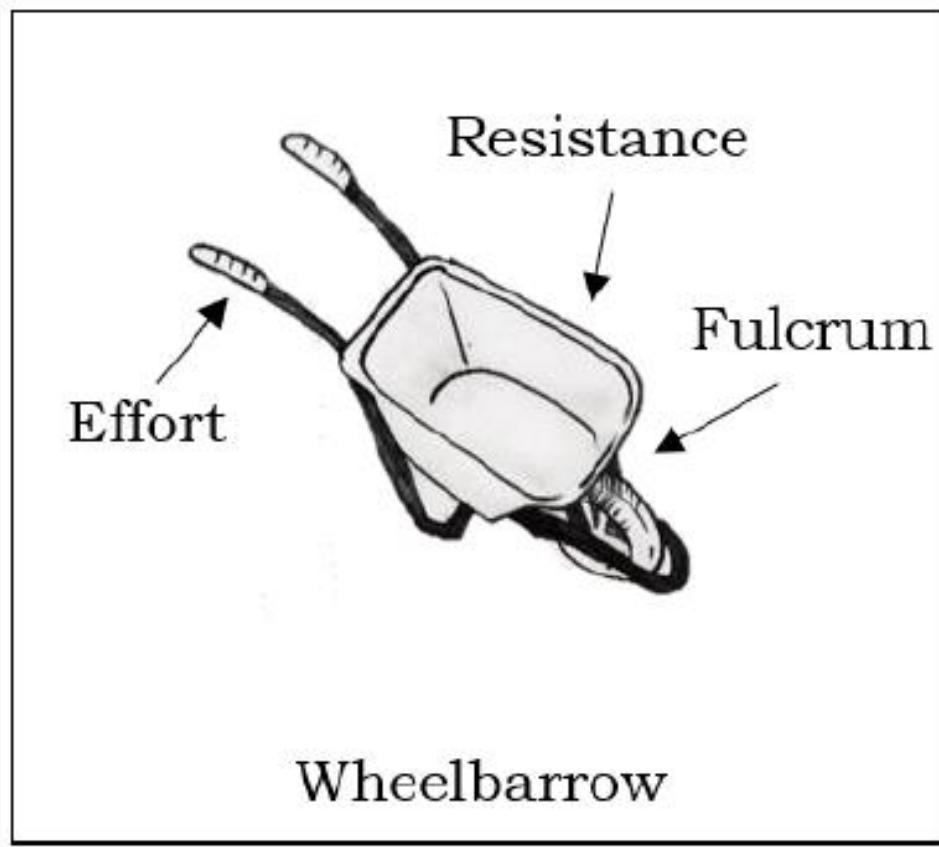


Second Class Lever. The effort force is applied on the other end to lift a weight in the middle. The resistance is between the effort force and the fulcrum (Mendoza & de Guzman Jr. 2015).

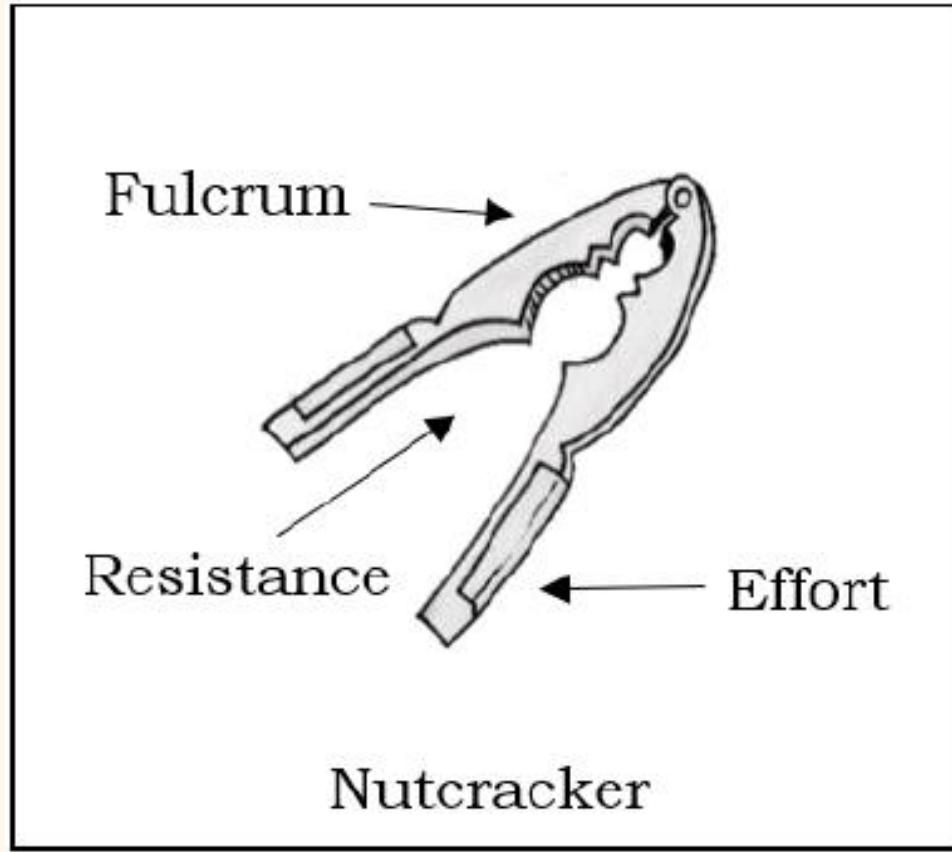
The following are examples of second-class lever.



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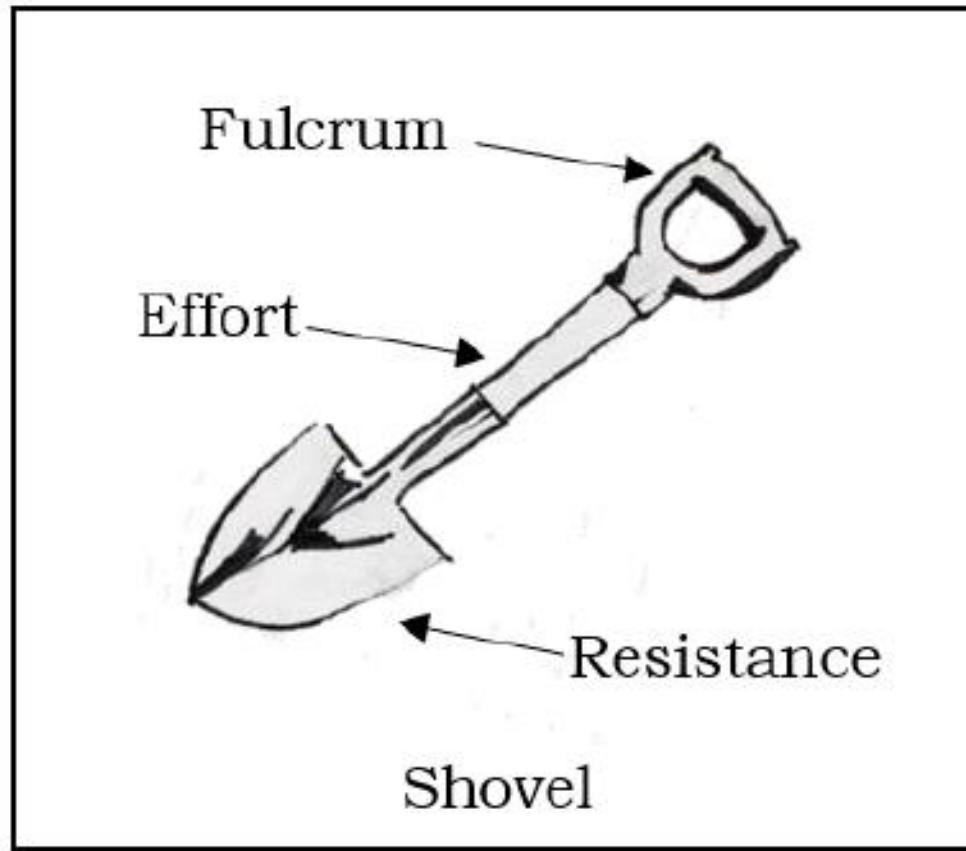


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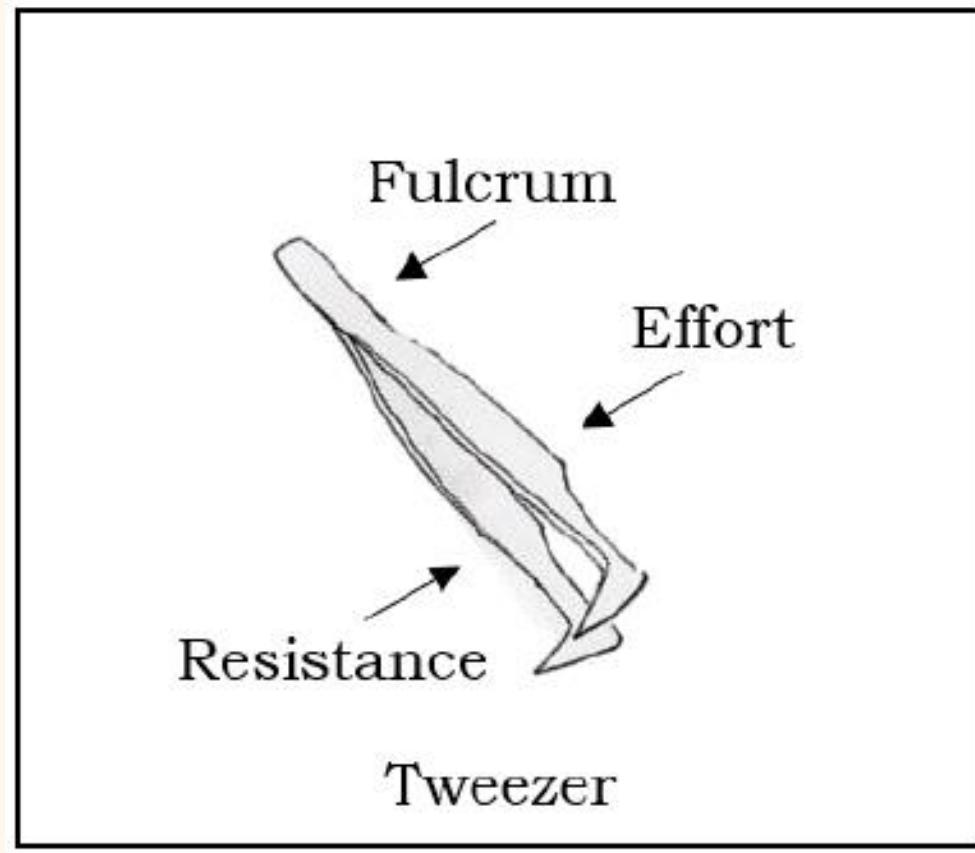


Third Class Lever. The effort is applied in the middle to lift a weight on the other end. The effort force is between the resistance and the fulcrum.

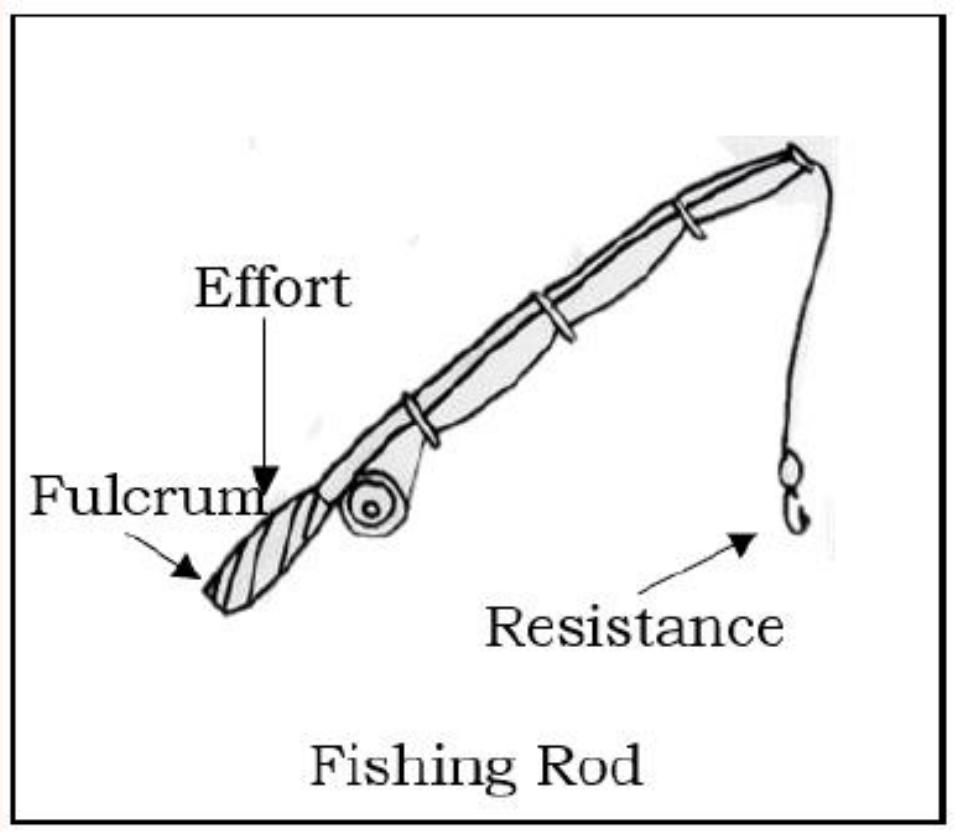
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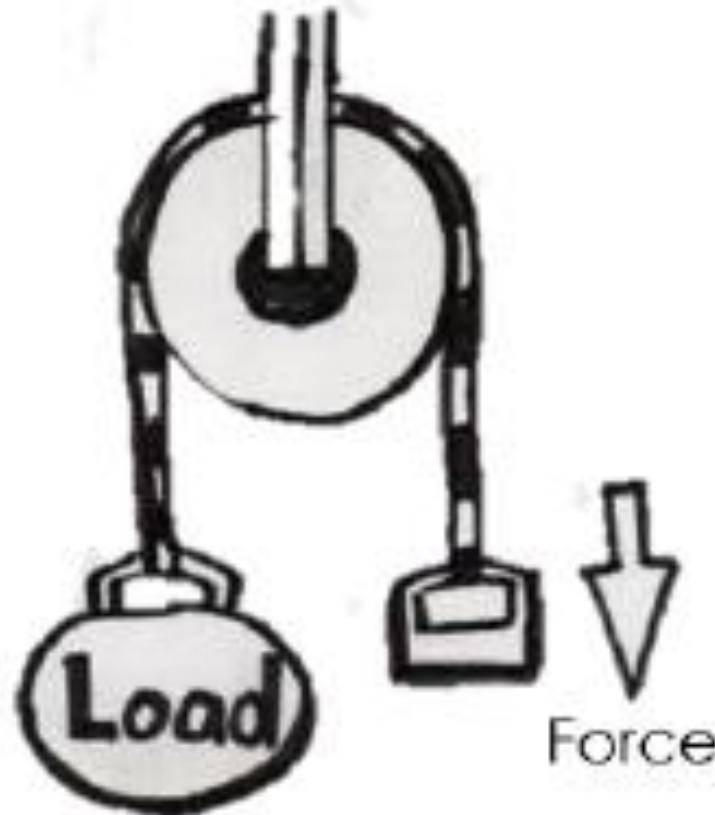


The following are examples of third-class lever

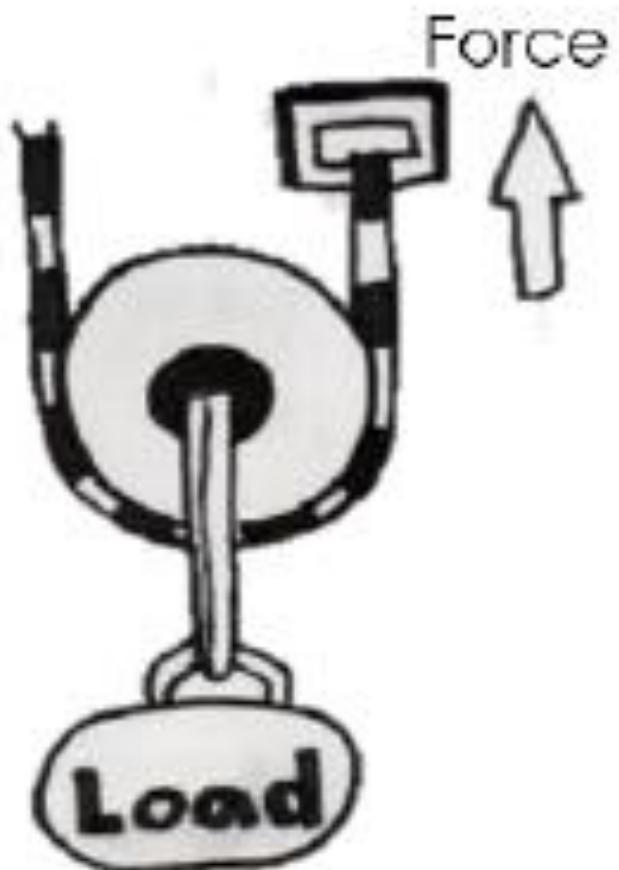


Pulley

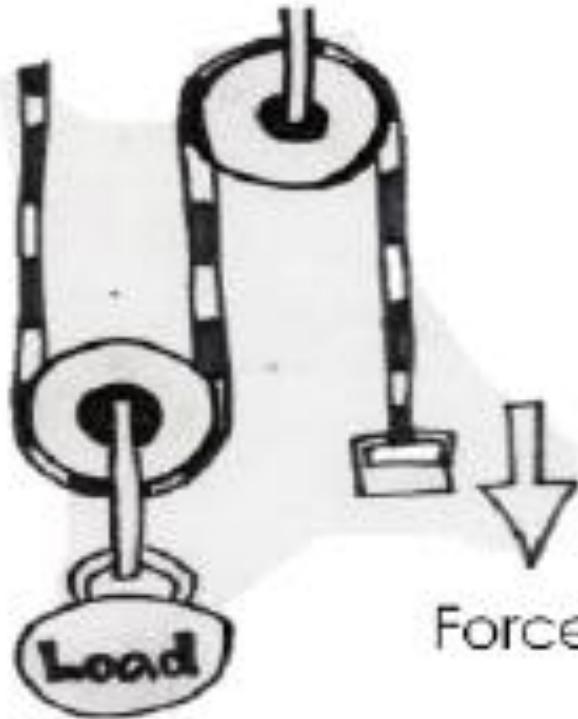
Fixed Pulley. This kind of pulley is attached to one place. With the use of this pulley, you can change the direction of the force applied. It is used in flagpoles.



Movable Pulley. This kind of pulley is not attached to a single point and less force is needed to lift a heavy weight. It is usually found in port areas where loading and unloading cargoes use movable pulley.



Block and Tackle Pulley. This kind of pulley is composed of a fixed pulley and a movable pulley. It is used to lift very hard objects with only a small amount of force. An example of this pulley is applied in the process of lifting a pail from a deep well (Mendoza & de Guzman Jr. 2015)



Force

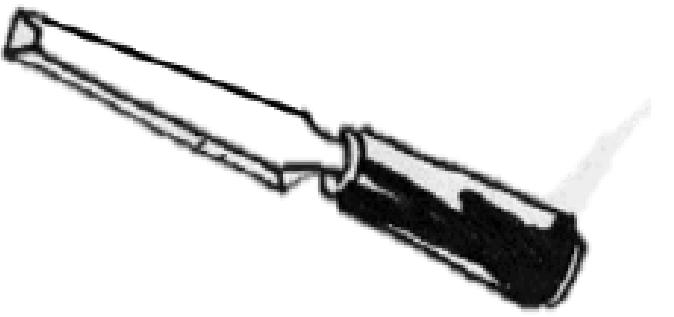
Inclined planes with a sloping surface can be found as ramps on a truck or wheelchair ramps and stairs.



Ramp

Wedge

Examples of wedges are piercing tools like axe, chisel, knife, and plow.



Chisel

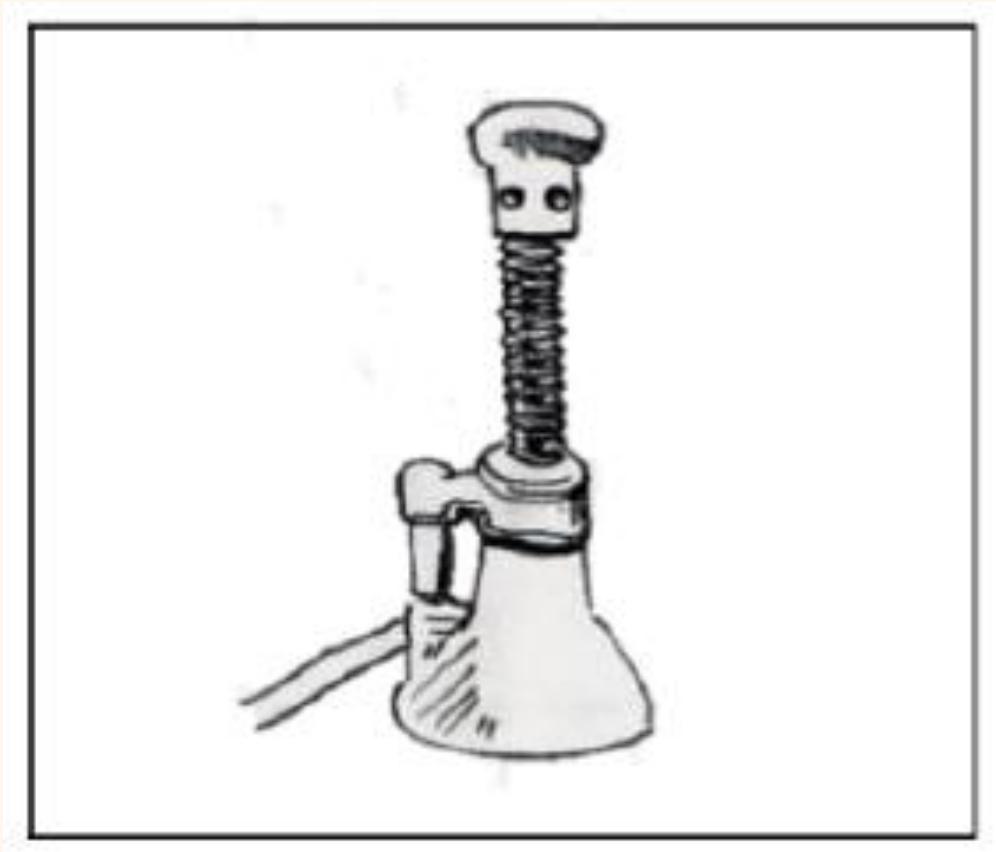


Plow

Screw

Screws can be found in bolts
and jar lids.

The jackscrew is a very useful kind of screw. It is used for lifting heavy objects.



A metal screw allows the screw to penetrate in wood and hold two pieces together tightly. As you turn the screw, the thread digs deeper



Wheel and Axle

Wheel and axle can be found as doorknob, pencil sharpener, screwdriver, and meat grinder.

