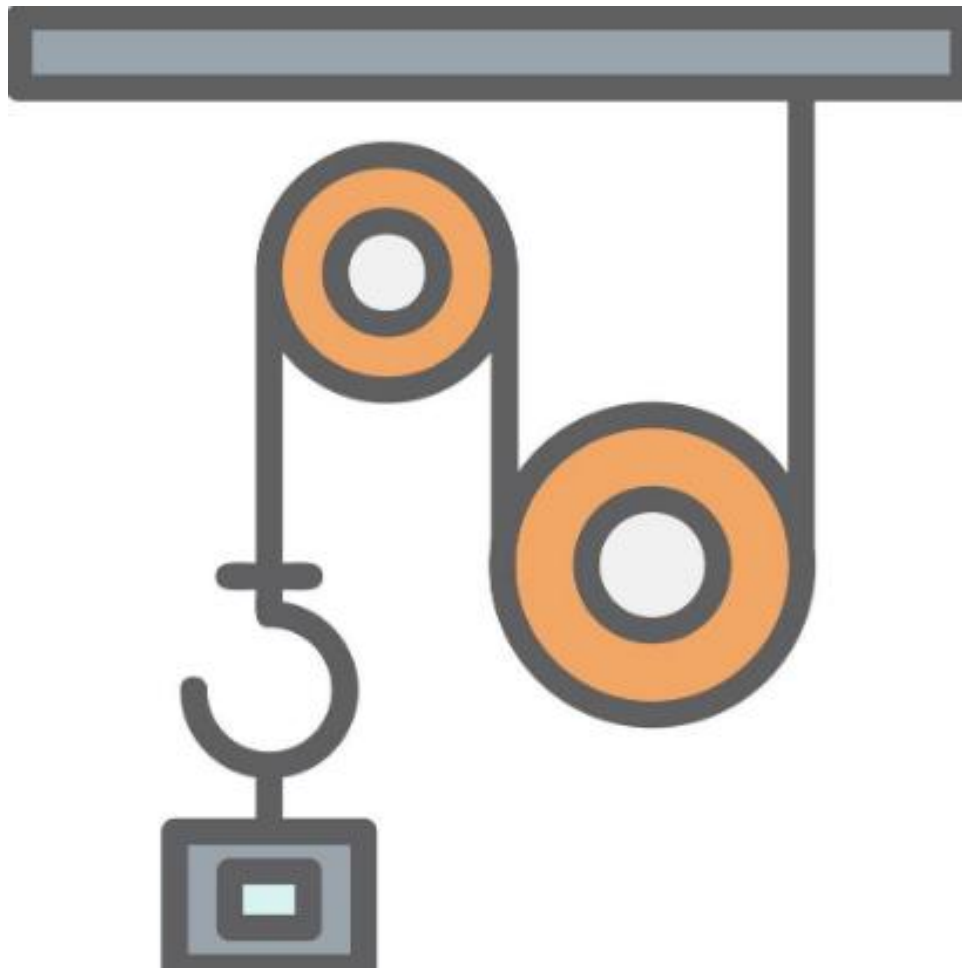


## Pulley and Types of Pulley



A pulley is a wheel that carries a flexible rope, cord, cable, chain, or belt on its rim. A pulley is used to lift heavy objects, when used with a rope. There are different types of pulley systems. A pulley is made up of a wheel on an axle with a groove around its circumference. It is a simple wooden or metallic machine that uses a wheel and rope to lift heavy loads.



## Pulley and Types of Pulley



### Fixed Pulley

- A. A rope is passed over the pulley and by pulling one end of the rope the weight comes up.
- B. This system works for lifting heavy weights.
- C. A pulley makes the work done with lesser effort, by changing the direction of force.
- D. It is commonly used to draw water from wells, when fitted with a support.

### Movable Pulley

- A. A movable pulley moves heavy load very easy.
- B. In a movable pulley one end of the rope is fixed.
- C. Then it runs around the pulley and the other end is free to apply force or attach the load.
- D. It does the same work as the fixed pulley.
- E. Movable pulley can move the weight also.

