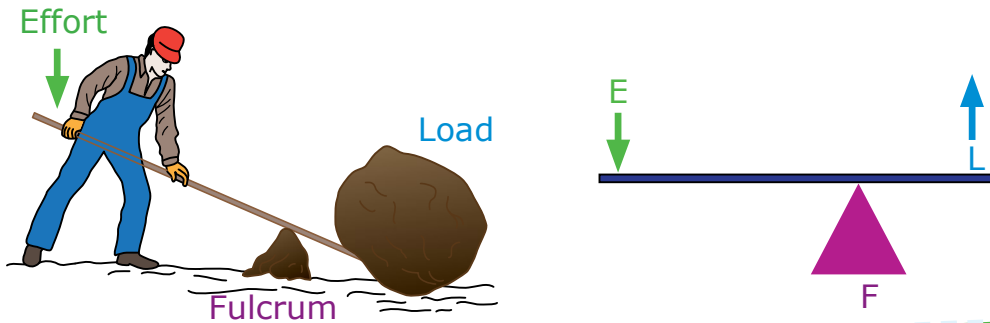


Levers

A lever is a simple machine which turns about a fixed point. The point is called a fulcrum. The effort is applied to move the load.

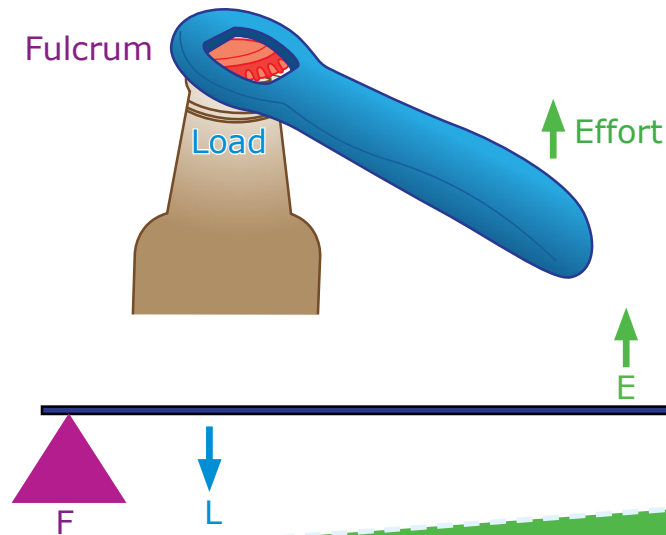
First class lever

The **fulcrum** is between the **effort** and the **load**



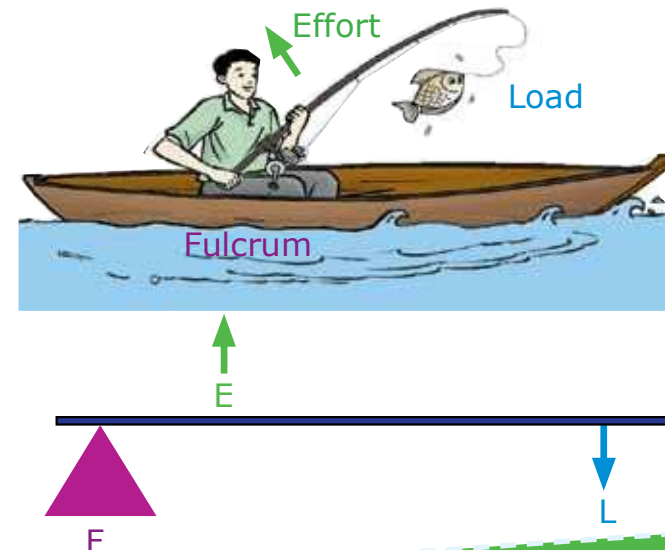
Second class lever

The **load** is between the **fulcrum** and the **effort**

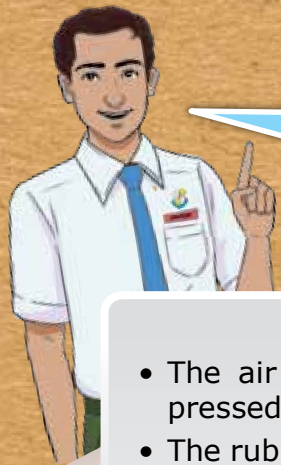


Third class lever

The **effort** is between the **fulcrum** and the **load**



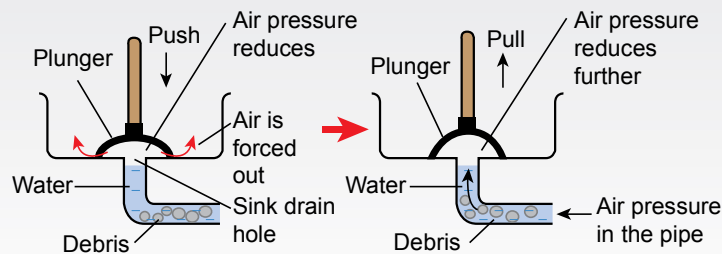
Applications of Atmospheric Pressure



Atmospheric pressure is the pressure exerted by the atmosphere on the surface of the Earth and all objects on the Earth.

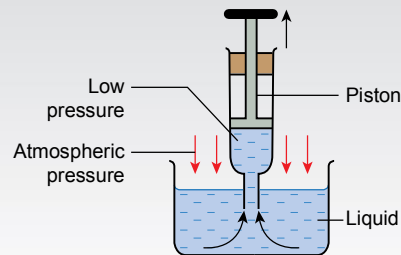
Plunger

- The air inside the plunger is forced out when the plunger is pressed and forms an area of low pressure.
- The rubber bowl sticks to the surface of the sink when the higher pressure outside presses on it.
- The high pressure in the pipe pushes out the stuck debris when the plunger is pulled up.

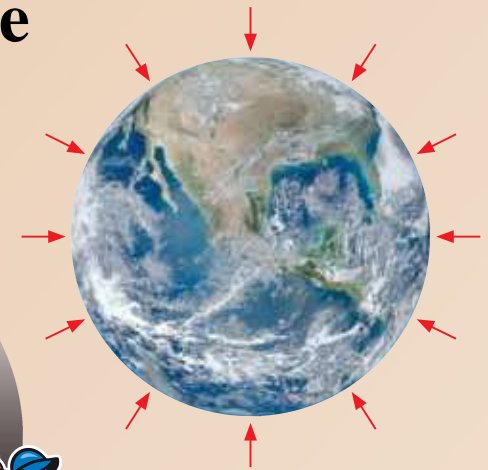


Syringe

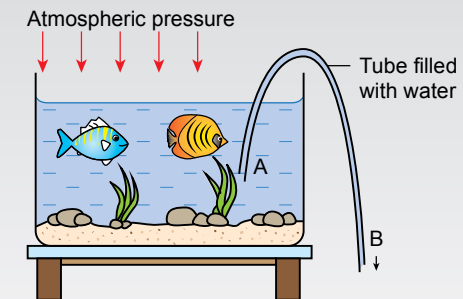
- When the piston is pulled upwards, the volume of liquid in the syringe increases.
- An area of low pressure is created in the syringe.
- The higher atmospheric pressure outside pushes the liquid into the syringe.



Applications of Atmospheric Pressure



Syphon



- When water flows out of the tube, an area of low pressure is created in the tube.
- The higher atmospheric pressure outside pushes water into the syphon tube which causes the water to flow out continuously.