## Pressure



## Pressure The amount of force acting on a

 unit of area. The pressure in a liquid increases with depth.pressure $=\frac{\text { force }}{\text { area }}($ page 270$)$

## pressure =

## force

 area
## $p=$ <br> f <br> a

## pascat <br> newton <br> 3guare metres

Pressure is the amount of force working on a unit of area.


## When a force is working on a small

 area it exerts a large pressure.

Air Pressure is
all around us
-Atmospheric pressure is caused by gases in the atmosphere. -It is estimated that there is 500 million tonnes of gas in the atmosphere.

Barometer is used to measure pressure.

Normal atmospheric pressure supports 76 cm of mercury in a barometer

Atmospheric pressure is not constant and changes according to temperature and moisture in the atmosphere


## Barometer





## Isobars are pressure lines on a map.



## Pressure in a liquid increases with depth



Diagram 6.4 Diver at two different depths in water showing columns of water resting on her

## Pressure in a liquid increases <br> with depth



