

. 101300 N/M² =101300 Pascal = 1013 Milli Bar = 1 atm = 760 mmhg . 1 Bar=1000millibar = 10<sup>5</sup> Pascal = 10<sup>5</sup> N/m²

$$Q_{th} = m c \Delta t$$

$$P_{liquid} = \rho g h$$

$$P_{liquid} = Pa + P_{liquid} = Pa + \rho g h$$

## **Devices**

- 1. Barometer: used to measure atmospheric pressure
- 2. pH meter: used to measure of how acidic/basic water is.
- 3. Joule calorimeter: used to determine the specific heat of water.
- 4. Moisture meter: to detect moisture content in soil.
- 5. hygrometer: to measure the humidity, or amount of water vapor in the air.
- 6. Gas Chromatography: It is used to analyze volatile organic compounds such as benzene, and formaldehyde
- 7. UV spectroscopy: Used to measure oxides of nitrogen and ozone in the air.



