



STEPPING STONE
SCHOOL (HIGH)

CLASS: 6

Subject: Physics

Date: 03/06/2020

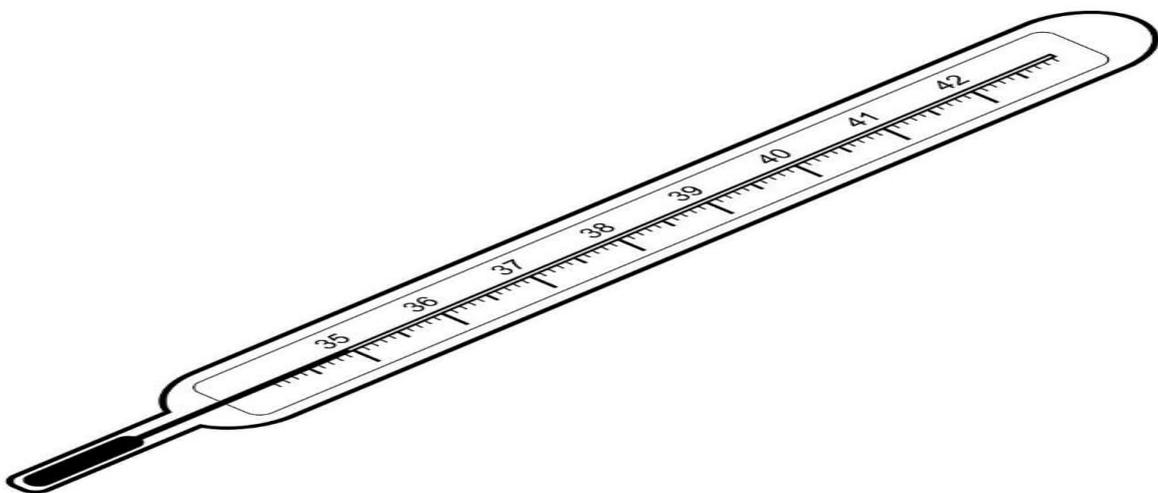
Topic: Measurements (Thermometer) Time Limit: 30 min.

Worksheet No. : 8

*[Copy the questions following the notes and solve them on a sheet of paper date wise.
Keep the worksheets ready in a file to be submitted on the opening day.]*

Types of Thermometers:-There are different types of thermometers for measuring the temperatures of different things like clinical thermometers, laboratory thermometers, maximum-minimum thermometers etc.

Clinical Thermometer : - Clinical thermometers are used to measure the temperature of a human body. Since the Fahrenheit scale is more sensitive than the Celsius scale, body temperature is measured in °F only. **A clinical thermometer indicates temperatures from a minimum of 35 °C or 94 °F to a maximum of 42 °C or 108 °F.**

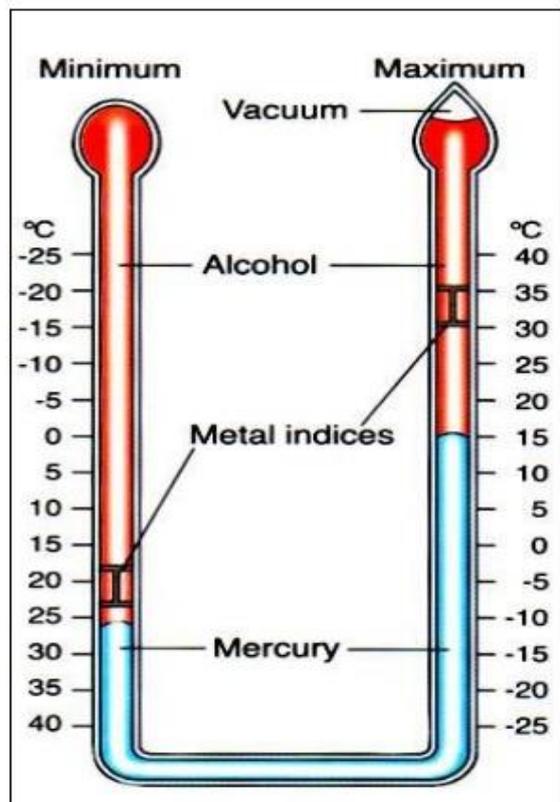


Laboratory Thermometers: - Lab thermometers are used to measure the temperature in school and other laboratories for scientific research. **A laboratory thermometer has only the Celsius scale ranging from $-10\text{ }^{\circ}\text{C}$ to $110\text{ }^{\circ}\text{C}$.**



Six's Maximum and Minimum Thermometer: - Six's maximum and the minimum thermometer is used for measuring the day's maximum and minimum temperature. It consists of a U-shaped capillary tube with bulbs at both ends the bend of the U-tube is filled with mercury. One of the bulbs is completely filled with alcohol and the other bulb is partly filled with alcohol. The space in the bulb partly filled with alcohol is initially a vacuum.

- Made up of **Mercury** and **Alcohol**
- Mercury – Very high boiling point
- Alcohol – Very low freezing point
- Read off the base of the Indices (Indicators)



Fill in the blanks:-

- (i) **Maximum & minimum temperature of a day is measured by _____ thermometer.**
- (ii) **A laboratory thermometer scale ranging from _____ to _____.**
- (iii) **A minimum temperature measured by Clinical thermometer is _____.**
- (iv) **A maximum temperature measured by laboratory thermometer is _____.**
- (v) **42° C = _____ F.**
- (vi) **Thermometric liquid used in Six's maximum & minimum thermometer is _____ and _____.**

Questions:-

- (i) **Why degree Celsius scale is not preferred to measure body temperature?**
- (ii) **State use of Six's Maximum and Minimum scale.**
- (iii) **Define Laboratory Thermometer?**

[Click here for you tube video on six maximum and minimum thermometer](#)