



Provincial Department Of Education – Sabaragamuwa
WEEKLY SCHOOL

Subject : Science

Week : 4th of 3rd Term

Grade 7

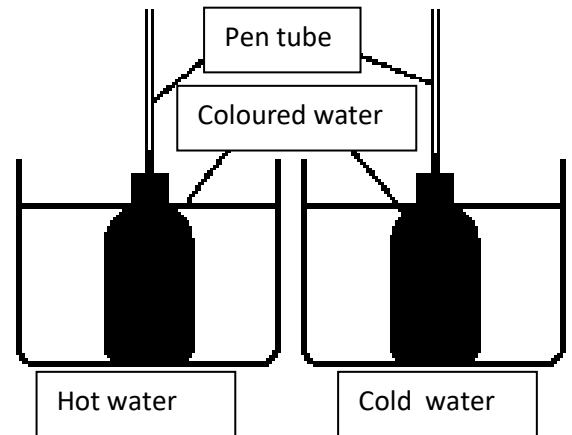
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Activity 2

You will need :- Two small glass bottles with rubber stoppers, two empty tubes of ball point pens, two beakers, water, red ink

Method :-

- Fill the small glass bottles with coloured water and fix the empty tubes of ball point pens.
- Keep one of those bottles in a beaker filled with warm water and the other in a beaker filled with cold water.
- Observe what happens



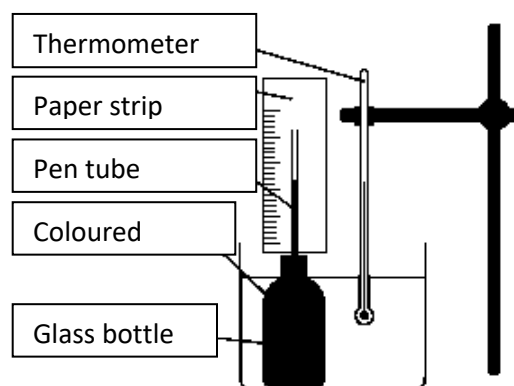
Observations

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- **Increase of the volume of a substance, by gaining heat is called the expansion of the liquid.**
- It is the property of expansion of a liquid, that is used in making thermometers.
- The expansivity of different materials are differ.
- A simple thermometer can be made and calibrated as indicated below



1. Mention the short comings of this thermometer.

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2. Write two types of thermometers you know.

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Scales of thermometers

Units of measuring temperature in each scale is given in following Table

Temperature scale	Unit
Celsius	°C
Farenheit	°F
Kelvin	K

3. There are several scales used in present thermometers. Those are;

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4. What is the international standard unit of temperature?

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5. What is the symbol of it?

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The equivalence between principle temperature scales are given in following Table for some temperatures

Temperature	Celsius scale (oC)	Farenheit scale (oF)	Kelvin scale (K)
Boiling point of water	100	212	373
Freezing point of water	0	32	273
Mean temperature of human body	36.9	98.4	309.9