### 1075 LOVU SANGAM SCHOOL

# **<u>SUBJECTS</u>: ELEMENTARY SCIENCE** <u>YEAR</u>: 6 <u>WORKSHEET#1</u>

STRAND	Matter	
SUB – STRAND	Investigating Matter	
CONTENT LEARNING	Measuring temperature, volume and of objects	
OUTCOME	Explore means of changing the 3 states of matter.	

#### **LESSON NOTES: Measuring Temperature**

- Thermometer is used to measure temperature (how hot/cold an object/material).
- The temperature of the air, water, ice can also be measured by a thermometer
- The thermometer has an outer casing of glass and mercury (red) contained at the base shaped like a bulb. The unit used in thermometer is degree **Celsius**.
- When the **air or water** is **hot** the mercury in the thermometer will **rise** and when the **air or water** is **cold** the mercury will **fall**.
- Normal body temperature is **37** degree Celsius. **Hot/Boiling point** will be more than 100 degree Celsius. **Freezing 0** degree Celsius.



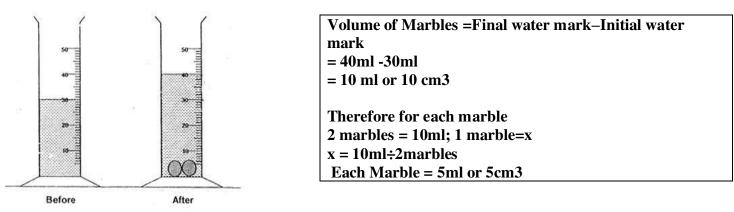
### Activity: Complete the table

Types of water	Temperature (Rise/Fall)
1. Ice water	
2. Hot	
3. Boiling tea	

### Measuring of Volume and of Objects

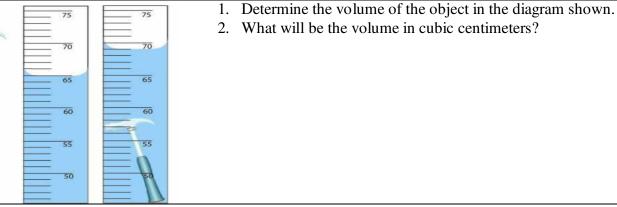
- 1. The volume of the object is determined by the volume of water displaced. This can be written using Litres, Millilitres and cubic centimetres.
- 2. Scientist Archimedes states that any object placed in the fluid will move the fluid level up. Thus, the volume fluid displaced will be equal to the volume of the object.

Example given with formula



## NOTE: Millilitres is same as cm3/cubic centimeters, example 10ml = 10cm3.





#### Complete the table

Objects	Volume in ml	Volume in cm3
Stone	30ml	
Rubber		23cm3
Watch	85ml	
CHANGE OF STAT	E	

• Substance can change from solid to liquid to gases as they get more energy – example ice ( solid ) to Water (Liquid), then to steam ( vapor , gas) -Sublimation Process ( includes – melting and vaporization)

• Similarly we can change gases into liquid then to solid by taking away the energy – by cooling them down – **Reverse Sublimation process ( condensation and freezing)** 

