





Final Revision Chapter 1

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3. Pipette: To measure specific V of liquid (exactly 5, 10, 25 or 50 cm3) with great accuracy, uncertainty of ∓0.05 cm3
. It has one calibration mark. SQ15

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4. Measuring cylinder: To measure various volumes of liquids, accuracy depending on size and graduation of the cylinder (rather inaccurate)
5. Volumetric flask: To prepare solutions with a specific volume, e.g. 250 cm3, 1000 cm3, etc., to the nearest 0.10 cm3.

6. Separating funnel: To separate two immiscible liquids

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7. **Beaker**: To measure only approximate volumes of liquids, not to be used for precise quantities. It can be also used as a container.

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8. Volumetric flask: Volumetric flask used to prepare solutions with a specific volume and to the nearest 0.10cm3.

9. Separating funnel: used to separate two immiscible liquids.

10. Test tube holder: used to hold test tubes while

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11. Wire Gauze: used to allow uniform heat distribution when using a Bunsen-

burner.

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1. Place the Bunsen burner on a porcelain tile to protect
the surface of the bench.
2. Make sure that the Bunsen burner is attached to a gas
tap.
3. Make sure that the air hole of the burner is closed.
4. Hold a lighted match or The K NotesThe
splint to the muzzle of the burner
and slowly open the gas tap until
the gas ignites. This will produce
a very s <mark>oot</mark> y, yellow flame .
Keep your face and hair away
from the burner.
5. Slightly open the air hole until
the flame is blue at the bottom and
slightly yellow at the top.
6. If a very hot flame is required, fully open the air hole
and the gas tap. Be very careful with this type of flame
and never leave the Bunsen burner with a blue flame
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when heating a test-tube.

1. Never have the test-tube more than half filled with liquid.

2. Always use test-tube holder and never tongs or your hands.

3. Don't hold the test-tube upright in the flame, instead have it inclined at an angle. An upright tube is more likely to spit the liquid out when it starts to boil.

4. Keep the test-tube moving as it is being heated, by moving your wrist from side to side, to prevent bumping due to overheating.

5. Remove the tube temporarily out of the flame when the liquid starts to boil vigorously or reduce the flame, so the liquid will not spill out.



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