

## Worksheet: Handling Chemicals

(Frameworks Code)

Give a short written description of the following:

1. Three simple methods of transferring solid chemicals from a reagent jar.

- Transfer by scoop if the mouth of container is larger than the scoop directly to Beaker
- Transfer by scoop to a folded (creased) paper
- Pour solids from reagent jar onto a fold (creased) paper

2. Procedure for heating:

- solids in a test tube: ① Test tube should not be more than  $\frac{1}{3}$  full.  
② support in a utility clamp on Ring stand, At a slant  
③ continually wave the flame under the solid from upper portion to lower portion
- liquids in a test tube: ① Test tube should not be more than  $\frac{1}{2}$  full.  
2) Using a test tube clamp, heat at a slant  
3) Keep Heat below the surface of the liquid

3. Procedure for opening and pouring from a glass-stoppered reagent bottle:

- Grasp stopper with peace sign (palm up)
- Hold Reagent Bottle in the same hand
- Always pour down a stirring rod

4. Decanting: Pouring a liquid off a settled solid5. Procedure for filtering: 1) Full moon 2) Half moon 3) Quarter moon  
4) Place filter paper cone into funnel and wet down with a wash bottle

- Define residue: the solid material left on the filter paper after filtering
- Define filtrate: the liquid material which passes through the filter paper