PRACTICE 7. SEPARATING COMPONENTS OF A MIXTURE.

Objective: Separating sand, copper sulphate and iron filings.

Material:

- ✓ Ring stand, utility clamp, iron ring
- ✓ Funnel
- ✓ 250 ml. beakers
- ✓ Filter paper
- ✓ Stirring rod

Procedure:

a) Before your eyes you have a material system. Do you think it is homogeneous or heterogeneous (to the naked eye)?

……

b) On the table you have a magnet. Pass it over the mixture. Do you get to separate anything? What can you say now about the material system?

……

c) Take the beaker and pour the remainder of the material system in it (after having passed the magnet several times over it). Add about 200 ml of tap water, stir and let it settle a few minutes. What happens now?

……

d) Take the funnel and place some fold filter paper following the instructions of your teacher. Filter the suspension. What can the solid be? And the liquid?

……

e) Once you have finished give the beaker with the liquid to your teacher. The solution is going to be concentrated and, after that, poured in an evaporating dish.

Questions:

a) Is the blue liquid a pure substance or a solution? What is it?

……

b) What process happens in the evaporating dish?

……