

# PURIFYING SALT

NAME: \_\_\_\_\_ DATE \_\_\_\_\_

OBJECT: Understand how to purify salt from rock salt

## METHODS

### Material

- |                      |                   |                   |
|----------------------|-------------------|-------------------|
| - Filter paper       | - Funnel          | - Distilled water |
| - Graduated cylinder | - Boiling tube    | - Test tube stand |
| - Spatula            | - Rock salt       | - 250 ml Beaker   |
| - Stir rod           | - Mortar & Pestle |                   |

### Procedures

1. Crush 6 spatulas of rock salt
2. Measure 50 mL of distilled water into a beaker
3. Add 6 spatulas of crushed rock salt into the beaker
4. Stir for at least 5 minutes to dissolve the salt
5. Using a funnel and filter paper, filter the mixture into the boiling tube
6. Remove the filter paper. Record what you see you on the filter paper.
7. Gently heat the boiling tube until most of the water has evaporated. Stop before it becomes dry
8. Let it cool and examine the salt crystals.

## CONCLUSIONS

1. After examining your dry mixture, what evidence do you have that your sample is made up of more than one substance?
2. Describe how the rock salt was different from the purified salt
3. Why might the purified salt still not be safe to eat?
4. The rock salt contains both particles of salt and particles of sand and clay Use the particle theory to explain your observations on stirring the salt with water.

