

Name

## Experiment 2: Boiling Salt in Water versus Boiling Sugar in Water

Requirements:

15g sea salt

15ml water at room temperature

15g refined sugar

15 ml water at room temperature

2 Erlenmeyer flask or beaker

2 petri dishes

Black construction paper

Hot plate

Black paper

Instruction:

1. Dissolve the salt in water and transfer to a flask.
2. Boil the solution in the hot plate while stirring constantly. Continue until the water is reduced to almost none.
3. Cover a petri dish with a construction paper. Transfer the mixture in the flask to a petri dish.
4. Set aside for a few hours.
5. Place the sugar and water in a flask.
6. Boil the solution in the hot plate while stirring constantly. Stir until the

sugar caramelizes.

7. Cover a petri dish with a construction paper. Transfer the mixture to the petri dish.
8. Set aside for a few hours.
9. Observe.

Possible outcome:

1. The paper will separate the salt from the remaining liquid.
2. The caramel will not pass through the paper.

# *My Science Experiment Observation Sheet*

**Materials Needed:**

**My Hypothesis:**

**What happened?**

## **My Conclusion:**

Which of the two experiment resulted in a chemical change or a physical change?

1. The salt underwent

Because

2. The sugar underwent  
Because