Name: _____

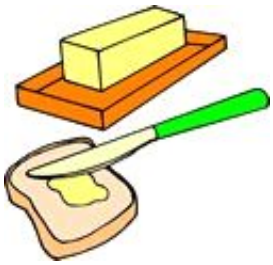
Melting Matters!

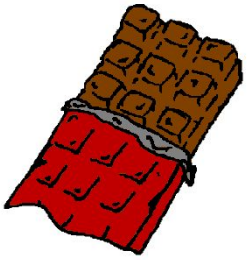
In today's lab, we will observe three substances as they change from a solid to a liquid when heat is applied. We will be working with 25 grams of ice, margarine, and chocolate. The hot plate will be turned on to medium.

Step 1-Predictions

1. When 25 grams of ***ice*** *i*s placed on a hot plate, it will melt in _____minutes and_____ seconds.
2. When 25 grams of ***margarine*** is placed on a hot plate, it will melt in _____minutes and_____ seconds.
3. When 25 grams of ***chocolate*** is placed on a hot plate, it will melt in_____minutes and_____ seconds.
4. The _____ will melt the fastest.
5. The _____ will melt the slowest.

Step 2-Experiment





Name: _____

Station One: Ice

Directions: Weigh 25 grams of ice and put it on the hot plate. Set the hot plate on. Use a stopwatch to calculate how long it takes to melt.

1. Write down one observation. You may draw a picture to illustrate your observation.

2. The ice melted in _____minutes and_____seconds.

Station Two: Margarine

Directions: Weigh 25 grams of margarine and put it on the hot plate. Set the hot plate on. Use a stopwatch to calculate how long it takes to melt.

3. Write down one observation. You may draw a picture to illustrate your observation.

4. The margarine melted in _____minutes and_____ seconds.

Station Three: Chocolate

Directions: Weigh 25 grams of chocolate and put it on the hot plate. Set the hot plate on. Use a stopwatch to calculate how long it takes to melt.

5. Write down one observation. You may draw a picture to illustrate your observation.

6. The chocolate melted in _____minutes and_____ seconds.

Name: _____

Step 3-Results

1. Which substance melted the quickest? _____
2. Which substance melted the slowest? _____
3. Did the evidence support your hypotheses? Why or Why not?

   _____

_____

_____

_____

Step 4- Further Investigations

What other experiments can we do which explore how heat changes states of matter?

1.

2.

3.