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5.4.3 Practice: The Scientific Method

Practice Assignment

World History Sem 1 (2012) (S1771136) Points possible: 20

Zachary Latta

Due date: | Date: _____

Assignment

In this activity you will describe the steps in the scientific method and then outline a possible experiment that follows those steps.

Introduction		
Observation/Hypothesis		
•		
Experiment		
Steps taken		
+		
Data		
What happened?		
•		
Conclusion		
Evaluate your data		

1. Imagine that you are a scientist. Propose a hypothesis that you would like to prove and outline the experiments you think would prove your theory.

Water + salt has a loveton boiling pains,

Experiment! Starting at 70°C, by increase the
temperature of water with 100g of intable
salt by 1°C overy minute. Record the temperature
at which it starts bailing, Repent 2 mare times.
And repeat 3 times with water with na salt.

2. First make an observation and state the hypothesis that you are going aim to prove.

Observation, Salt is path on icy roads,

Hypothesis! If table salt is added to water, its

1 of 3 boiling point lowers,

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3. Next make some predictions based on your hypothesis.

If I add table salt to water,
Its bookban freezing point will lower.

4. Outline an experiment that can prove or disprove your hypothesis.

1. Add 100g of table salt to \$12 of water

2. Starting at 30°C, lower the temperature of the Most solution by 3°C every 5

mihates,

3, Record the temperature when the solution starts freezing

4. Repeat steps 1-3 2 more times,

5. Repeat sters 1-4 without adding salt to the water

5. Describe your experiment:

What was your hypothesis?

If table salt is added to mater, then
the salution's freezing point will lawer. 11/22/2013 12:43 PM

How did your experiment prove or disprove the hypothesis?

If the water+ solt solution had a lower fretzing point than the control, In then the experiment blasses proves the hypothesis trae, If hat, then It proves the hypothesis false,

What evaluations can you draw from this experiment?

- · Adding table salt to water may lower ras freezing point,
- · Putting salt an icy mads may the help melt the ice.

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