

Physical Science Assignment 1-2

Read section 1-2. Then, based on the information in your textbook, answer the following questions :

Name _____
Class Period _____
Date _____
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1. List all seven steps of the "Scientific Method" and write a short summary of what goes on during each step.

2. According to your science text, why do scientists do experiments?

In the experiment described on pages 12 through 17...

3. What was different about the ***control setup*** and the ***experimental setup***?

4. How much water did the beaker in the ***control setup*** contain compared to the beaker in the ***experimental setup***?

5. What was the starting temperature of the water in the ***control setup*** compared to the water in the ***experimental setup***?

According to the charts in fig. 1-10

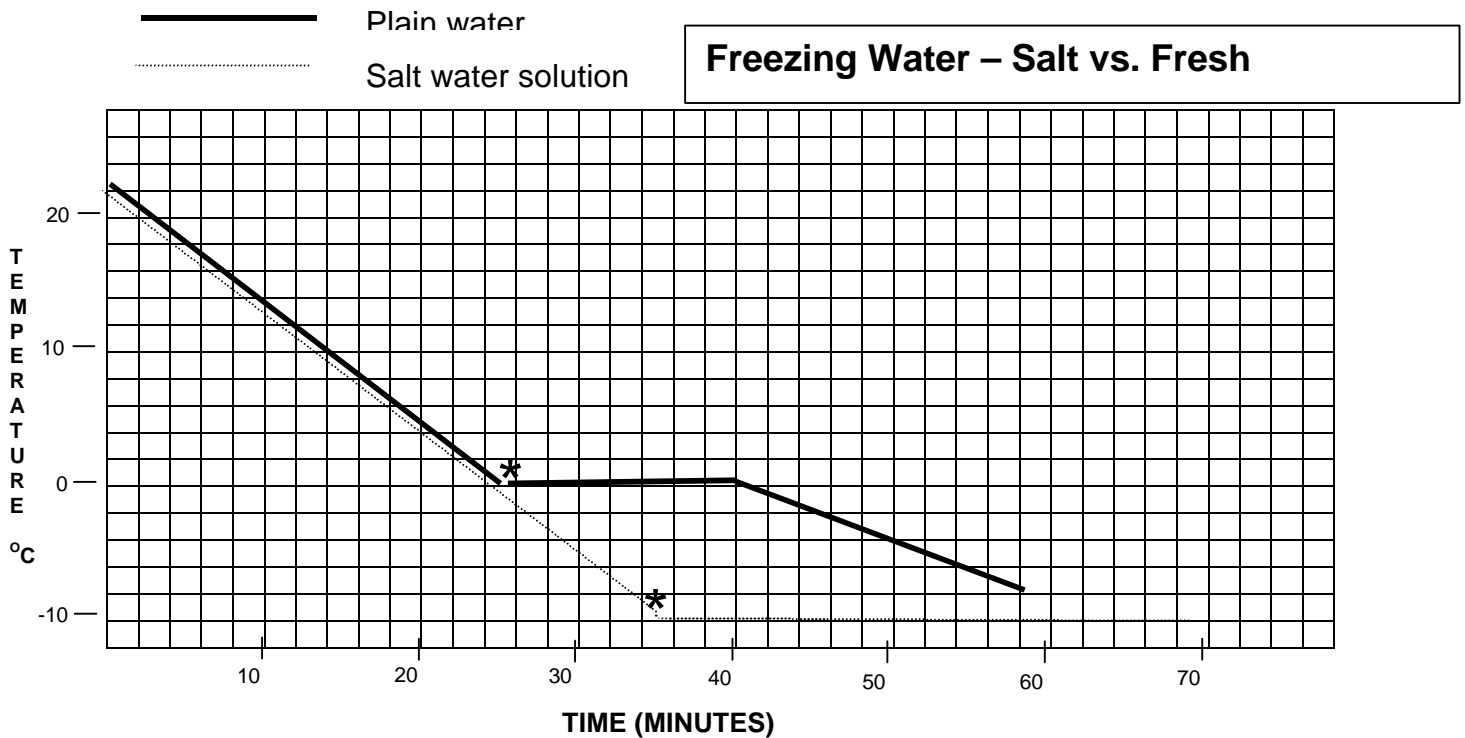
6. What temperature did both liquids start at? _____

7. At what temperature did the **plain water** start to freeze? _____

8. At what temperature did the **salt water** start to freeze? _____

In the experiment described on pages 12 through 17...

9. What was the conclusion formed by the two people running the experiment?



According to the graphs above

10. What was happening in the **plain water** container between 25 minutes and 40 minutes?

11. What was happening in the **salt water** container between 25 minutes and 30 minutes?

12. What was the temperature of the **plain water** at 15 minutes? _____

13. How many minutes did it take for the **salt water** to reach a temperature of **-5** degrees?

14. Why must scientists repeat experiments? _____