

# Graphing Data Practice

Name \_\_\_\_\_  
 Date \_\_\_\_\_  
 Period \_\_\_\_\_

- Graph the data below on graph paper.
- Answer the questions below using the graph.

Time in Minutes	Temperature in °C
0	10
1	14
2	18
3	23
4	23
5	23
6	23
7	23
8	35
9	48
10	59
11	68
12	77
13	88
14	88
15	88
16	88
17	94
18	99
19	105
20	111

1. What is happening in this experiment? \_\_\_\_\_  
 \_\_\_\_\_

2. How do you know if a substance goes through a phase change by looking at a graph? \_\_\_\_\_  
 \_\_\_\_\_

3. At what temperature and time did this substance go through its first phase change? \_\_\_\_\_  
 \_\_\_\_\_

4. Most likely, what phase was the substance changing from, and what was it changing to? \_\_\_\_\_  
 \_\_\_\_\_

5. Did the substance go through a second phase change? \_\_\_\_\_  
 If yes, at what time and temp? \_\_\_\_\_

6. What is most likely happening to the substance from 3 to 6 minutes? (Be specific. Boiling, freezing, melting, temperature rising/falling, evaporating?) \_\_\_\_\_  
 \_\_\_\_\_

7. What is most likely happening to the substance from 8 to 12 minutes? (Be specific. Boiling, freezing, melting, temperature rising/falling, evaporating?) \_\_\_\_\_  
 \_\_\_\_\_

8. What is most likely happening to the substance from 13 to 15 minutes? (Be specific. Boiling, freezing, melting, temperature rising/falling, evaporating?) \_\_\_\_\_  
 \_\_\_\_\_

9. What is the melting point of this substance? \_\_\_\_\_

10. What is the boiling point of this substance? \_\_\_\_\_

11. What is the freezing point of this substance? \_\_\_\_\_

12. Is this substance water? \_\_\_\_\_ How do you know? \_\_\_\_\_  
 \_\_\_\_\_