**FPS – Heating Curve Demo and Practice**

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

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| I can… |
| *Interpret a heating curve.**Construct a heating curve based on given properties.* |



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| ***Pre-Lab Questions – Complete quietly on your own first!*** |
| 1. A heating curve often shows 3 different states of matter. List them.
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| 1. A heating curve show many different **phase changes**. List as many as you can remember.
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| 1. Look at the heating curve above. What is the melting/freezing point?
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| ***Lab* *Demonstration*** |
| 1. On the graph to the right, sketch the heating curve.
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| 1. Remember, the **flat, horizontal lines** are phase changes. What **two** phase changes occurred, at the same temperature?
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| 1. What is the melting and boiling point?
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| 1. What happens with energy at diagonal lines? At horizontal lines?
 |  |
| 1. On the graph to the right, sketch the heating curve.
 |  |
| 1. What is the melting and boiling point?
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| 1. On the graph to the right, sketch the heating curve.
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| **Answer the following questions on your own!** |
| Using the heating curve, answer the following questions, get them signed by your teacher.1. What state of matter is the substance at segment 1?
2. What ***two*** phase changes are occuring at the same time on segment **2**?
3. What is the **boiling point** of the substance? (Hint: see segment 4)
4. What state of matter was the substance at 75°C?

1. What is the **melting point** of the substance?
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Now… do the quiz on your phone or laptop!! Go to join.quizziz.com and enter the pin.