

ANALYZE:

13. How was this substance similar to water in each state of matter? How was it different?
The movement for the molecules were very similar to that of water.
When in a solid the molecules in hydrogen tightly pack and did not move much. When weq was more tightly packed than water and less free. This was the case with the typical form of neon and water except neon was a gas from they looked the same except water moved around much.

14. Were your predictions (see p. 1) correct or incorrect? Explain. My prediction was more or less correct. I correctly predicted the movement of the molecules. However, they did not travel quicker than I had originally thought.

BONUS: Optional, worth up to 10 points added to the lab's final grade

15. Choose a substance other than water from the menu on the right side of the program. Use the slider to add and remove heat. Based on what the molecules do, figure out the approximate temperatures of the melting point and boiling point of this substance. (Hint: The temperatures given when you click solid, liquid, and gas are NOT the melting and boiling points.)

Substance: Argon

Melting Point: 87 K

How did you figure it out? I chose Argon as a solid then heated it up until it started to act like a liquid.

Boiling Point: 92 K

How did you figure it out? I heated the molecules up further until they started to break apart. I recorded the temperature just before they broke apart.