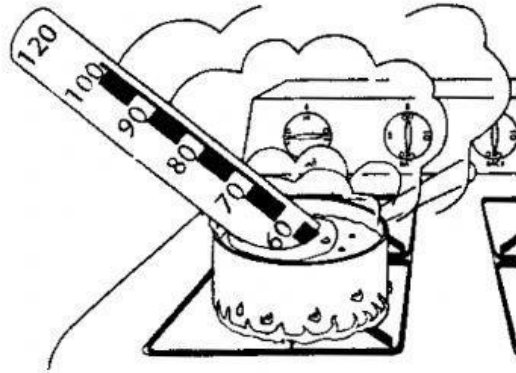


Use the illustration below to answer the questions that follow.



21. Drawing Conclusions Which temperature scale does this thermometer use?

Fahrenheit I know this because the boiling point of water
Kelvin on the scale picked is degrees.
Celsius

22. Interpreting Illustrations What change of state is occurring in the illustration?

Melting Vaporization
Freezing Condensation

Answer the following questions in the spaces provided.

23. Explain why the dry end of a metal spoon sitting in hot water feels warm but a wooden spoon does not.

Metal **Wood** is a better conductor the **wood** **metal** will **absorb** **reflect** more heat before it feels warm.

24. After running, your friend lies down on a tile floor because he says the “coldness” of the tile transfers to his body. Is his statement correct? Explain.

Your friend is **correct** **incorrect** because there **is** **is not** a concept of cold in science. As we know **heat** **cold** moves from **hot** **cold** to **hot** **cold**.

25. Explain why the temperature of water does not change as it melts from solid ice to liquid water.

During Phase Change the energy being added to the water is making the particles **move faster** **not move faster but instead break the attractive bonds that held the water together as a solid** which means the temperature will **increase** **remain the same**. This heat is called the Heat of **Vaporization** **Fusion**.