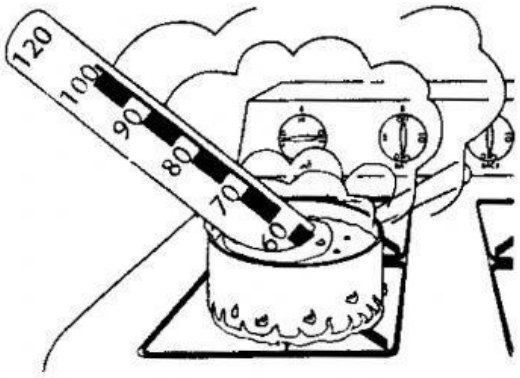
Use the illustration below to answer the questions that follow.



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

Fahrenheit
Kelvin
Celsius

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

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 if 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**.