Experiment 4: Freezing Points and Melting Points

Procedure A: Cooling Curve and Freezing Point

*When we talk about freezing, we mean the point at which a material becomes solid.* Materials like wax, moth balls are solid at room temperature, so their freezing point is very warm... you probably think of freezing points as being, well, “freezing cold”; but, the temperatures at which materials change from liquid to solid is different for various materials.

*The apparatus for procedure A is:*

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Procedure B: Melting Point of an Unknown

*Here are the materials for procedure B: capillary, Biphenyl, and Unknown (#12 is shown)*
The apparatus set up for procedure B is shown:

Please discard of capillary tubes in the broken glass, or inorganic waste containers, as directed by your instructor.