

**Chapter
1****Performance Task (continued)****Melting Matters**

When does the state of a substance change from solid to liquid or from liquid to solid? The states of different substances change at different temperatures. How do their melting points compare to that of ice? How can you use absolute values to solve problems about melting points?

The temperature at which a solid becomes a liquid is called a melting point. In Exercises 1–5, use the table below.

Substance	Melting Point (°C)
Ice	0
Beeswax	62
Mercury	-39
Plastic	130
Tin	232
Ethanol	-114
Acetone	-95
Chocolate	32

1. Graph each melting point on a number line. Label each point with its substance and temperature.
2. Which substance has the highest melting point? Which substance has the lowest melting point?
3. Order each substance's melting point from closest to farthest away from ice's melting point. Which substance's melting point is closest to ice's melting point?

