

Melting and Boiling Points



Procedure

1. Use the information in Table 1 (below) to mark the boiling points and melting points of ethanol, bromine, and radon on the thermometer diagram. Some of the information for water has been plotted for you.

Substance	Melting Point °C	Boiling Point °C
water	0	100
ethanol	-115	78
bromine	-7	59
radon	-71	-61

For each substance:

2. Use a graphite pencil to add arrows to indicate the melting and boiling points. Place the arrows to the **LEFT** of each thermometer and label them "BP" (boiling point) and "MP" (melting point).
3. With a yellow pencil, color in the area of the thermometer directly **above** the boiling point line.
4. With a red pencil, color in the area of the thermometer **between** the boiling point and melting point lines.
5. With a blue pencil, color in the area of the thermometer **below** the melting point line.
6. In each of the yellow regions, write the word *gas*.
7. In each of the red regions, write the word *liquid*.
8. In each of the blue regions, write the word *solid*.
9. Use your diagram to answer the following questions.

