

Name: _____

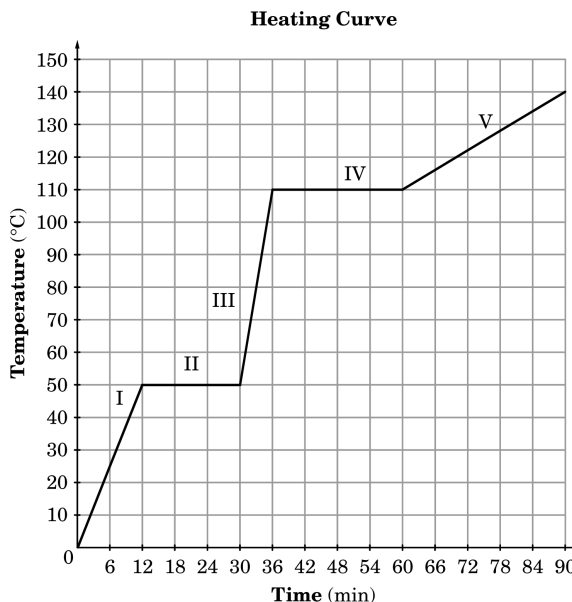
Date: _____

1. Which substance listed in the table is a liquid at 27°C?

	Melting Point	Boiling Point
I	28°C	140°C
II	10°C	-25°C
III	20°C	140°C
IV	90°C	-14°C

- A. I B. II C. III D. IV
2. A jar and three ice cubes weigh 30 g. What do the jar and the water weigh after the ice cubes melt?
- A. 10 g B. 30 g C. 60 g D. 90 g
3. Which sequence represents matter that is losing energy?
- A. solid → gas → liquid B. solid → liquid → gas
 C. gas → solid → liquid D. gas → liquid → solid
4. Which is the *best* example of a physical change?
- A. ice melting B. candle burning C. bread baking
5. When water evaporates to form water vapor, what type of process is taking place?
- A. heating of water B. dissolving of water
 C. a chemical change D. a physical change

6. This graph represents a heating curve of a substance.



Which region on the graph represents the solid phase?

- A. I B. II C. III D. IV
7. The solubility of a substance can be described in a variety of ways. Some references may use descriptive terms for solubility, such as those in the table illustrated below.

Descriptive terms	Parts of solvent needed for 1 part solute
Very soluble	<1
Freely soluble	1–10
Soluble	10–30
Sparingly soluble	30–100
Slightly soluble	100–1,000
Very slightly soluble	1,000–10,000
Practically insoluble or insoluble	>10,000

Using the table above as a reference, what descriptive term would be used for a medication that required 4,000 mg of water to dissolve 200 mg of the drug?

- A. soluble B. slightly soluble
 C. sparingly soluble D. very slightly soluble