



**Fill in** the bubble next to the answer choice you think is correct for each multiple-choice question.

1. Which of these is true of an ice cube?
  - (A) It is made of vibrating, closely-packed tiny particles.
  - (B) It is made of clumps of particles that glide past each other.
  - (C) It is made of particles that spread out evenly to fill the container they are in.
  - (D) It is made of tiny particles that are far apart from each other.
2. How is the mass of an object measured?
  - (A) with a scale
  - (B) with a balance
  - (C) with a graduated cylinder
  - (D) with a thermometer
3. What is the measure of the average amount of motion in particles of matter called?
  - (A) mass
  - (B) volume
  - (C) temperature
  - (D) color
4. Lemonade is an example of which of the following?
  - (A) crystals
  - (B) a solution
  - (C) a solid
  - (D) a solute
5. Which idea below describes the atomic theory?
  - (A) Atoms make up compounds.
  - (B) Atoms can be rearranged to form new elements.
  - (C) Most atoms are metals.
  - (D) Everything is made up of tiny particles called atoms.
6. Diamonds and graphite are both made of carbon atoms. Why do they have different properties?
  - (A) The carbon atoms in diamonds contain more protons than those in graphite.
  - (B) The atoms in diamonds are harder than those in graphite.
  - (C) They are different compounds.
  - (D) The carbon atoms are connected differently in diamonds and graphite.



- 7.** Which of the following will cause a physical change to a slice of tomato?
- (A) pouring vinegar on it
  - (B) cooking it
  - (C) putting it in a blender
  - (D) letting it rot
- 8.** Which of the following is a chemical change?
- (A) You melt butter.
  - (B) You make cookies.
  - (C) You make a pitcher of orange juice from concentrate.
  - (D) You blow up a balloon.

- 9.** Explain how you would separate a mixture of water, sand, salt, and iron filings into its four component parts.

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- 10.** What are the properties of metal that make it a useful material for electricians?

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