

**CHAPTER 1 REVIEW***Matter and Change***SECTION 2****SHORT ANSWER** Answer the following questions in the space provided.

- 1.** Classify each of the following as a *homogeneous* or *heterogeneous* substance.

- \_\_\_\_\_ a. iron ore
- \_\_\_\_\_ b. quartz
- \_\_\_\_\_ c. granite
- \_\_\_\_\_ d. energy drink
- \_\_\_\_\_ e. oil-and-vinegar salad dressing
- \_\_\_\_\_ f. salt
- \_\_\_\_\_ g. rainwater
- \_\_\_\_\_ h. nitrogen

- 2.** Classify each of the following as a *physical* or *chemical* change.

- \_\_\_\_\_ a. ice melting
- \_\_\_\_\_ b. paper burning
- \_\_\_\_\_ c. metal rusting
- \_\_\_\_\_ d. gas pressure increasing
- \_\_\_\_\_ e. liquid evaporating
- \_\_\_\_\_ f. food digesting

- 3.** Compare a physical change with a chemical change.

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**SECTION 2 continued**

**4.** Compare and contrast each of the following terms:

**a.** *mass* and *matter*

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**b.** *atom* and *compound*

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**c.** *physical property* and *chemical property*

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**d.** *homogeneous mixture* and *heterogeneous mixture*

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**5.** Using circles to represent particles, draw a diagram that compares the arrangement of particles in the solid, liquid, and gas states.



Solid



Liquid



Gas

**6.** How is energy involved in chemical and physical changes?

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