

# 2

## MATTER AND CHANGE

### Practice Problems

In your notebook, solve the following problems.

#### SECTION 2.1 PROPERTIES OF MATTER

- Which of the following is *not* a physical change?
  - dissolving sugar in water
  - burning gasoline in an engine
  - evaporating sea water to obtain salt
  - slicing a piece of bread
- Which of the following is *not* a property of a gas?
  - has a definite shape
  - has an indefinite volume
  - assumes the shape of its container
  - is easily compressed
- Which of the following is *not* a physical property of sucrose?
  - solid at room temperature
  - decomposes when heated
  - dissolves in water
  - tastes sweet
- Which of the following is in a different physical state at room temperature than the other three?
  - salt
  - sugar
  - flour
  - water
- Complete the following table.

Physical state	Definite Shape?	Definite Volume?	Easily Compressed?
gas			
	no		no
	yes		

Use the Table 2.1 to answer the following questions.

- Which substance is a colored gas?
- Which liquids boil at a lower temperature than water?
- Classify the following properties as extensive or intensive.
  - color
  - volume
  - mass
  - boiling point