

# Matter—Properties and Changes

## 1 Properties of Matter

### REVIEW VOCABULARY

density

Recall the definition of the Review Vocabulary term.

*density*

### NEW VOCABULARY

states of matter

Define each New Vocabulary term.

*states of matter*

solid

*solid*

liquid

*liquid*

gas

*gas*

vapor

*vapor*

physical property

*physical property*

extensive property

*extensive property*

intensive property

*intensive property*

chemical property

*chemical property*

**Match** each of the following states of matter with its physical description

solid

flows and fills the entire volume of its container

liquid

has definite shape and volume

gas

flows and has a constant volume

# Matter—Properties and Changes

## 2 Changes in Matter

### REVIEW VOCABULARY

observation

Recall the definition of the Review Vocabulary term.

*observation*

### NEW VOCABULARY

physical change

phase change

chemical change

law of conservation

of mass

Define each New Vocabulary term.

*physical change*

*phase change*

*chemical change*

*law of conservation of mass*

# Matter—Properties and Changes

## 3 Elements and Compounds

### REVIEW VOCABULARY

proportion

Recall the definition of the Review Vocabulary term.

*proportion*

### NEW VOCABULARY

element

periodic table

compound

law of definite proportions

percent by mass

law of multiple proportions

Define each New Vocabulary term.

*element*

*periodic table*

*compound*

*law of definite proportions*

*percent by mass*

*law of multiple proportions*

# Matter—Properties and Changes

## 4 Mixtures of Matter

### REVIEW VOCABULARY

substance

Recall the definition of the Review Vocabulary term.

*substance*

### NEW VOCABULARY

mixture

heterogeneous mixture

homogeneous mixture

solution

filtration

distillation

sublimation

chromatography

crystallization

Define each New Vocabulary term.

*mixture*

*heterogeneous mixture*

*homogeneous mixture*

*solution*

*filtration*

*distillation*

*sublimation*

*chromatography*

*crystallization*

Describe how mixtures relate to substances.