Name	Class	Date
Skills Worksheet		
Section Review	ı	
Section Review		
Elements		
USING VOCABULARY		
1. Use element and pure su	bstance in the same sente	ence.
UNDERSTANDING CONCEP	TS	
2. Classifying Compare the	properties of metals and	nonmetals.
CRITICAL THINKING		
3. Applying Concepts From make a container that we	which category of element ould not shatter if dropped	-
4. Making Inferences List for metalloid. Can your list h		a substance classified as a nown substance as a metal-
loid? Explain your answe		nown substance as a metal

Name	Class	Date
Section Review continued		
MATH SKILLS		
of Earth's crust: oxygen sodium, 2.8%; potassium	nere are 8 elements that tog n, 46.6%; aluminum, 8.1%; in n, 2.6%; magnesium, 2.1%; a n? Show your work below	ron, 5.0%; calcium, 3.6%; and silicon. What percentage
CHALLENGE		
6. Evaluating Assumptions metal. Do you agree? E		a shiny element has to be a

Name	Class	Date
Skills Worksheet		
Section Review		
Compounds UNDERSTANDING CONCEPT 1. Identifying What type of o		k down a compound?
The chart below shows the co chart to answer the next two		in percent by mass. Use the
	51.5% Oxygen 42:1% Carbon	
1	/ Hydrogen	
2. Evaluating List the 3 elem	ents that make up table	sugar.

anie Class	Date
Section Review continued	
RITICAL THINKING	
4. Applying Concepts Iron is a solid, gray metal. Oxygen iron and oxygen chemically combine, rust is made. Rucolor. Why does rust differ from iron and oxygen?	
HALLENGE	
5. Analyzing Ideas A jar contains samples of the elemen Does the jar contain a compound? Explain your answ	

Name Class Date	
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Skills Worksheet

Section Review

Mixtures

USING VOCABULARY

Correct each statement by replacing the underlined term.

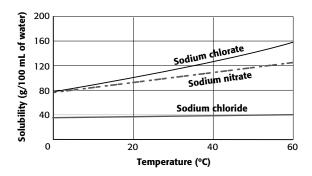
- **1.** The solvent is the substance that is dissolved.
- 2. A measure of the amount of solute dissolved in a solvent is solubility.

UNDERSTANDING CONCEPTS

Interpreting Graphics

Use the graph below to answer the next two questions.

Solubility of Different Substances



- **3. Identifying** At what temperature is 120 g of sodium nitrate soluble in 100 mL of water?
- **4. Comparing** At 60° C, how much more sodium chlorate than sodium chloride will dissolve in 100 mL of water?
- **5. Analyzing** Identify the solute and solvent in a solution made of 15 mL of oxygen and 5 mL of helium.

Name	Class	Date
Section Review continued		
CRITICAL THINKING		
6. Applying Concepts Soft dri soda will lose carbonation. properties of the solutes to	But, the soda will not b	carbon dioxide. An open become less sweet. Use the
7. Making Comparisons What compounds?	are three ways that mi	xtures differ from
CHALLENGE		
8. Applying Concepts Suggest sawdust. Explain why this		to separate iron filings from