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Name \_\_\_\_\_

Period \_\_\_\_\_ Date \_\_\_\_\_

# MYSTERY-MIXTURE ELEMENTS

## Part 1. Identifying elements

Substance	Chemical formula	Elements
Calcium carbonate	$\text{CaCO}_3$	
Sodium carbonate	$\text{Na}_2\text{CO}_3$	
Sodium bicarbonate	$\text{NaHCO}_3$	
Magnesium sulfate	$\text{MgSO}_4$	
Calcium chloride	$\text{CaCl}_2$	
Sodium chloride	$\text{NaCl}$	
Ascorbic acid	$\text{C}_6\text{H}_8\text{O}_6$	
Citric acid	$\text{C}_6\text{H}_8\text{O}_7$	
Sucrose	$\text{C}_{12}\text{H}_{22}\text{O}_{11}$	

## Part 2. Questions

1. Which substance has the greatest number of elements? \_\_\_\_\_ How many? \_\_\_\_\_
2. Altogether, how many different elements are in the nine substances? \_\_\_\_\_
3. Which element is found in the greatest number of substances? \_\_\_\_\_
4. How many elements are in the substance carbon dioxide? \_\_\_\_\_
5. How many elements are in the substance water? \_\_\_\_\_
6. Which of the nine substances are made of two elements? \_\_\_\_\_  
\_\_\_\_\_
7. Which of the nine substances are made of three elements? \_\_\_\_\_  
\_\_\_\_\_
8. Which of the nine substances are made of four elements? \_\_\_\_\_  
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1. What is an element?

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2. How are matter and elements related?

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3. How was Mendeleev able to predict the existence of elements that had not yet been discovered?

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4. What is the periodic table of the elements?

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