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Name _____

Period _____ Date _____

MYSTERY-MIXTURE ELEMENTS

Part 1. Identifying elements

Substance	Chemical formula	Elements
Calcium carbonate	CaCO_3	
Sodium carbonate	Na_2CO_3	
Sodium bicarbonate	NaHCO_3	
Magnesium sulfate	MgSO_4	
Calcium chloride	CaCl_2	
Sodium chloride	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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ELEMENTS QUESTIONS SRB page 8

1. What is an element?

2. How are matter and elements related?

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

4. What is the periodic table of the elements?
