

Pure substances that are made of more than one element are called compounds.

1. Which of the following represent elements and which represent compounds?

a. HCl _____

c. Na _____

b. CO _____

d. Ca _____

2. Can two or more elements be combined chemically to make a new element? Explain your answer.

3. Does the relative proportions of elements in a given compound vary from sample to sample (size to size)? Explain your answer.

Reviewing the Main Ideas

Complete the chart by filling in the correct answers to each question.

	ELEMENT	COMPOUND	MIXTURE
What kind of particles makes it up?			
How can it be broken down?			
Is it the same throughout?			

Fill in the blank . . .

Formula	Compound Name	Number of Elements	Names of the Elements	Number of Atoms of Each Element	Total Number of Atoms per Molecule
1. MgO	magnesium oxide	2	Magnesium Oxygen	Mg = 1 O = 1	2
2. SO ₂	sulfur dioxide				
3. NH ₃	ammonia				
4. H ₂ CO ₃	carbonic oxide				
5. C ₁₂ H ₂₂ O ₁₁	table sugar				
6. MgSO ₄	Epsom salts				
7. NaOH	sodium hydroxide				
8. H ₂ O ₂	hydrogen peroxide				
9. Fe ₂ O ₃	iron oxide (rust)				
10. NaHCO ₃	Sodium bicarbonate				