

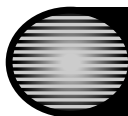


Directions: Carefully review the tables and answer the following questions.

Group A	
Water	H_2O
Carbon dioxide	CO_2
Ammonia	NH_3
Salt	NaCl
Methane	CH_4

Group B	
Epsom salts	$\text{Mg}(\text{OH})_2$
Sugar	$\text{C}_{12}\text{H}_{22}\text{O}_{11}$
Lye	NaOH
Baking soda	NaHCO_3
Vinegar	$\text{C}_2\text{H}_4\text{O}_2$

- The compounds in Group A are different from the compounds in Group B because only the compounds in Group A ____.
A are gases at room temperature
B are used in preparing food
C contain a metal and a nonmetal
D contain only two different elements
- According to the chemical formula for lye, all of the following elements are found in a lye molecule EXCEPT ____.
F hydrogen
G nitrogen
H oxygen
J sodium
- According to the information contained in the tables, which compound has a total number of atoms greater than 10?
A Baking soda
B Methane
C Sugar
D Vinegar
- According to the tables, which compound has the LEAST number of total atoms?
F Ammonia
G Carbon dioxide
H Salt
J Water

**Assessment
Transparency Activity****Chemical Bonds**

Directions: Carefully review the tables and answer the following questions.

Group A	
Water	H ₂ O
Carbon dioxide	CO ₂
Ammonia	NH ₃
Salt	NaCl
Methane	CH ₄

Group B	
Epsom salts	Mg(OH) ₂
Sugar	C ₁₂ H ₂₂ O ₁₁
Lye	NaOH
Baking soda	NaHCO ₃
Vinegar	C ₂ H ₄ O ₂

1. The compounds in Group A are different from the compounds in Group B because only the compounds in Group A ____.

A are gases at room temperature
B are used in preparing food
C contain a metal and a nonmetal
D contain only two different elements

2. According to the chemical formula for lye, all of the following elements are found in a lye molecule EXCEPT ____.

F hydrogen
G nitrogen
H oxygen
J sodium

3. According to the information contained in the tables, which compound has a total number of atoms greater than 10?

A Baking soda
B Methane
C Sugar
D Vinegar

4. According to the tables, which compound has the LEAST number of total atoms?

F Ammonia
G Carbon dioxide
H Salt
J Water