٧c	ame Date Hour
٩n	nswer the questions using complete sentences!
i .	How do the properties of a compound compare with the properties of the elements that make it
2.	What is a chemical formula ?
3.	What is a subscript ?
١.	
ō.	How many atoms are in a compound represented by the formula C12H22O11?
5.	What are the chemical formulas for water and hydrogen peroxide?
7.	How might you distinguish between hydrogen peroxide and water?
8.	A chemist analyzes two compounds and finds that they both contain only carbon and oxygen. The two compounds, however, have different properties. How can two compounds made from the same elements be different?

List the type and number of atoms for each chemical formula. Then, draw a model for each chemical formula and tell whether the substance is an element or a compound. Use a periodic table to help. The first one has been done for you.

	List of Atoms	Diagram	Element, Compound?
Ammonia NH ₃	1 – Nitrogen 3 - Hydrogen		compound
Aspirin C9H8O4			
Sand SiO ₂			
Rust Fe ₂ O ₃			
Αυ			
Glucose C&H12O&	·		
Water H ₂ O			
Pb	·		
Baking Soda NaHCO3			
Oxygen O ₂			-

Reading Study Guide B

BIG IDEA The properties of compounds depend on their atoms and chemical bonds. **KEY CONCEPT** Elements combine to form compounds.

Review

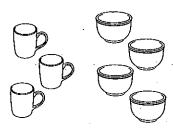
Atoms react with different atoms to form compounds.

Take Notes

- I. Compounds have different properties from the elements that make them. (p. 41)
 - 1. Complete the following sentences.
 - a. A compound is a substance made of atoms of ______
 - **b.** In a compound, atoms are held together by _____.
 - c. A compound's properties are often very _____ from those of the elements that make it up.
 - d. A compound's properties depend on the ______ it contains and how they are
- II. Atoms combine in predictable numbers. (p. 42)
 - 2. Below each pair of objects, write the ratio of the objects on the left to the objects on the right.



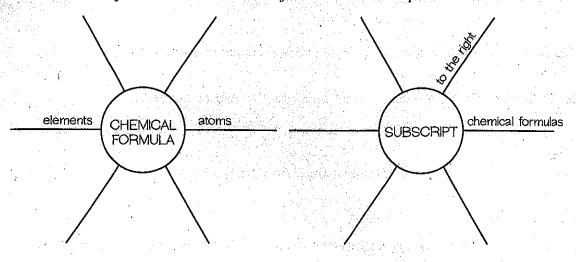




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A. Chemical Formulas (p. 43)

3. Fill in the description wheels for chemical formula and subscript.



4. Ammonia is a compound formed from three hydrogen atoms and one nitrogen atom. Follow the steps for writing its chemical formula.

1. Find the symbols

2. Use a subscript _______

3. Use no subscript

4. The formula is

B. Same Elements, Different Compounds (p. 44)

5. Write the chemical formulas for two compounds that have the same elements in different ratios.