

Name: _____ Date: _____

**Essential Question**

How Are Chemical Formulas Helpful?

1. Silver has one valence electron. Use the periodic table in your text to help you answer the questions.

a. What is the formula when silver combines with nitrogen? _____

b. What is the name of the compound? _____

c. Would you expect the compound to be a solid, liquid, or gas? Explain.

2. Name the following ionic compounds.

a. KBr _____

c. AlCl_3 _____

b. NaI _____

d. CO _____

3. Draw the structural formulas for pentane (C_5H_{12}) and hexane (C_6H_{14}).

4. Explain how several isomers of the same molecular compound differ.

Level 8