Guided Lesson Notes

Name:_____ **Date:**_____

Ternary Ionic Compounds

Directions: Complete this study guide as you move through the lesson. By taking notes, you are more likely to remember what you are learning. The completed study guide can be used for practice activities and to prepare for quizzes and exams. Be sure to save each study guide so you can access it when you need it.

Essential Vocabulary

As you encounter these scientific terms in the lesson, enter the meaning and an example (or two) for each. You can even draw a picture. If there are other unfamiliar words you find, enter them in the blank spaces provided.

polyatomic ions	*ternary ionic compounds*

Polyatomic Ions

What are polyatomic ions?

Why are polyatomic ions also known as molecular ions?

How are polyatomic ions different from molecules?

How are the polyatomic ions that end in *-ate* different from those that end in *-ite*?

What are the two exceptions to the polyatomic ions ending in *-ate* or *-ite*?

Explain how the mnemonic "Nick the camel ATE a Clam for supper in Pheonix" can be used to remember the five main polyatomic ions.

Write the formulas for the five main polyatomic ions.

Practice Writing Names and Formulas for Ternary Ionic Compounds

In ternary ionic compounds the polyatomic ion behaves as a _____. Never change the _____ of the atoms within the ion. If more than one ion is needed, _____ around the ion and write the _____ outside of the _____.

What are the steps to writing a formula for a ternary ionic compound?