Guided Lesson Notes

Name:	Date:
Chemical Quanti	ties and the Mole
Directions: Complete this study guide as you notes, you are more likely to remember what guide can be used for practice activities and to save each study guide so you can access	t you are learning. The completed study to prepare for quizzes and exams. Be sure
Essential Vocabulary	
As you encounter these scientific terms in example (or two) for each. You can even unfamiliar words you find, enter them in	draw a picture. If there are other
mole	Avogadro's number
molar mass	representative particles

The Mole
How is the quantity of one mole defined?
Vhat is a representative particle?
low many representative particles does one mole of anything contain?
The number of particles in one mole of a substance is called
The number of particles in one mole of a substance is called
The number of particles in one mole of a substance is called Jsing Avogadro's Number
Jsing Avogadro's Number Vhat is the conversion factor used to convert from moles of a substance to the
Jsing Avogadro's Number Vhat is the conversion factor used to convert from moles of a substance to the
Jsing Avogadro's Number Vhat is the conversion factor used to convert from moles of a substance to the
Using Avogadro's Number What is the conversion factor used to convert from moles of a substance to the number of representative particles of that substance? Describe how to convert from the number of representative particles of a
Using Avogadro's Number What is the conversion factor used to convert from moles of a substance to the number of representative particles of that substance? Describe how to convert from the number of representative particles of a

L

Tutorial: Molar Mass

The mass of an element measured in <i>u</i> is numerically equal to the mass of one mole of atoms of that element measured in
What is the molar mass of a substance?
How is the atomic mass of an element related to its molar mass?
What are the units of molar mass?
What is the molar mass of a compound?
What information do you get from the chemical formula for a compound?

How do you determine the number of moles of a specific element in a compound?	
<u>Using Molar Mass</u>	
How do you convert the number of moles of a substance to the substance's mass?	
How do you convert from a substance's mass to the number of moles of a substance?	