Name:	Class:	Date:
CHAPTER 3 REVIEW		
Atoms: The	<b>Building</b>	Blocks of Matter
SECTION 3		
	• .	ons in the space provided.
1. Explain the difference nuclide.	between the <i>mass m</i>	umber and the atomic number of a
2	ommonly occurring	nic mass of all isotopes, rather than isotope, when referring to the
3. How many particles are Will 1 mol of each of the		n? 1 mol of lithium? 1 mol of eggs? The the same mass?
4. Explain what happens t		ving as the atomic masses of the
a. the number of proton		
b. the number of electron	nns	

c. the number of atoms in 1 mol of each element

Name:		Class:	Date:	
SECTION 3	continued			
5. Use a period	ic table to comple	ete the following chart:		
Element	Symbol	Atomic number	Mass number	
Europium-15	<sup>1</sup> <sup>151</sup> Eu	63	151	
Silver-109	<sup>109</sup> <sub>47</sub> Ag	47	109	
Tellurium-12	<sup>8</sup> 128 Te	52	128	
ne	otons utrons ectrons te the answer on t	he line to the left. Show a	ll your work in the	
7		What is the mass in grams of 2.000 mol of oxygen atoms?		
8	How	many moles of aluminum	n exist in 100.0 g of	

aluminum?

9. \_\_\_\_\_ How many atoms are in 80.45 g of magnesium?

carbon-12 isotope?

What is the mass in grams of 100 atoms of the