

Name _____ Date _____ Hour _____

Guided Reading 4-3

1. What does atomic number actually tell us about each element?
2. How is the periodic table organized?
3. What other subatomic particle do we know based by looking at an element's atomic number?
4. Use the periodic table to complete the following chart.

	Element Symbol	Atomic number	Proton Number	Electron Number
Hydrogen				
Chlorine				
Magnesium				
Nickel				

5. Examine figure 17, how are the 3 examples different from each other, what do we call these versions of the element?
6. What is mass number?
7. Examine figure 16, what are two isotopes of copper? What does the top number in the symbol represent, what does the bottom number represent?

8. Look at Example problem 2 on page 118. Write the isotope symbols for each of the elements a-f

9. How are atomic mass and mass number different?

Section Review

10. Which subatomic particle identifies an element? How can we determine the number of these particles in an atom of each element?