

Name: _____ Period: _____ Date: _____

CHAPTER 4: LIGHT AND THE DEVELOPMENT OF A NEW ATOMIC MODEL

Follow all directions on this page, discussing with your table mates where directed to and completing individual reading and notes where indicated. **This is DUE ON TUESDAY 11/19 at the beginning of class.**

1. With your table mates, use a list, sketches, words, or phrases to write down what you already know about "light" and "electrons".

LIGHT	ELECTRONS

Get a textbook (you may have to share with one person) and read pages 91-94. You do NOT need to read any further than this. As you read this section, take notes on the concepts listed below or answer the questions about what you are reading.

2. What are electromagnetic radiation and the electromagnetic spectrum?
3. Give at least 3 examples of types of electromagnetic radiation.
4. What is the speed of light (in m/s) at which all electromagnetic radiation travels?

Review Questions:

1. What was the major shortcoming of Rutherford's model of the atom?
2. Write and label the equation that relates the speed, wavelength, and frequency of electromagnetic radiation?
3. What is meant by the dual wave-particle nature of light?

If you finish all this, please see the substitute and get the supplemental reading on Light and Bohr's Model of the Atom and read it with a partner. Take additional notes on this page that support the reading and notes you took from the textbook.