BBC Atom: The Clash of Titans Video Notes 2020 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per \_\_\_

Objective 1: Explain how the atomic theory has evolved over time.

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| YEAR | SCIENTIST(S) | DISCOVERY |

HPS Atomic Models Discussion Questions

Using Ch 4.1 and the timeline on pages 114-115, answer the following questions. Be familiar with the scientist(s) related to the model, as well as any experimentation supporting the model.

1. What was Dalton’s evidence for atoms?

2. How did Thomson come to the conclusion that there are subatomic particles?

3. What did Rutherford’s Gold Leaf Experiment reveal to scientists?

4. What was correct about Bohr’s Model? What was incorrect?

5. Describe the Electron Cloud (Quantum) Model that scientists accept today.