

Atoms Study Guide (Chapter 4, section 1)

Name _____

Period _____

1. What is an atom?

2. Diagram **and** describe atomic models of the following scientists:

a) Dalton

.....
b) Thomson

.....
c) Rutherford

.....
d) Bohr

3. What is an electron?

4. What is a nucleus?

5. What is a proton?

6. What is an electron's energy level?

7. What is a neutron?

8. Diagram and describe the modern atomic model.

9. Why are atoms neutral? How do neutrons affect the charge of an atom? Explain.

10. How do protons, electrons, and neutrons compare in mass?

11. What units are used to measure atoms? What is the abbreviation for this term?

12. What makes up most of the volume of an atom?

13. What is the atomic number of an element? What is used to identify an element?

14. a) What are isotopes?

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b) What are the three isotopes of carbon? How many protons, electrons, and neutrons does each have? (Make a chart or diagrams)

15. What is the mass number of an atom?