



**Name:**

07/11/08

### Assignment #10: Atom Basics

1. What are the three particles that make up atoms?
2. What keeps the electrons orbiting the nucleus?
3. Who first proposed the theory of a tiny, indivisible object?
4. Who is called the "Father of Modern Atomic Theory"?
5. Why do chemists often ignore gravity when talking about how atoms are held together?
6. What are the three parts of Dalton's theory of atoms? Which parts (if any) were wrong?
7. The atomic number of an element depends on the number of -
8. An Ion is an atom that has lost or gained -
9. The word "isotope" refers to the atom's number of protons and -



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10. Draw a diagram of a helium atom. Label protons, neutrons, the nucleus, and the electron cloud.

11. Draw a diagram of a hydrogen atom. Label protons, neutrons, the nucleus, and the electron cloud.