

Chapter 9 Physical Science Study Guide:

- Know all vocab (on Quizlet)
- Know/describe the different parts of an atom
- Describe the atomic model timeline
 - Scientists, theories, discoveries, models, experiments
- Know what quarks are
- Know what happens to a neutral atom when the number of protons, neutrons, or electrons change
- Be able to describe the three types of nuclear decay

Different Parts of an Atom:

- **Electrons** are very small particles inside an atom with one negative charge (-1). The closer electrons are to the nucleus, less energy.
- The **nucleus** is a small area in the center of the atom where most of its mass and positive charge is concentrated
- A **proton** is an atomic particle that has one positive charge (+1)
- A **neutron** is a neutral particle that exists in the nucleus of an atom
- An **electron cloud** is an area around an atomic nucleus where an electron is most likely to be located
- A **quark** is the smallest particle in an atom, and it is what protons and neutrons are made of

The Atomic Model Timeline:

DEMOCRITUS:

- He was a philosopher who challenged the popular idea of matter.
- His atomic theories were that atoms are small solid objects that cannot be divided, created, or destroyed. Also, that atoms are constantly moving in empty space, and that different types of matter are made of different types of atoms. His last theory is that the properties of the atoms determine the properties of matter.

DALTON:

- In the late 1700s, John Dalton revisited the idea of atoms.
- His atomic theories were that all matter is made of atoms that can't be divided, created, or destroyed. Also, that during a chemical reaction, atoms of one element can't be converted into atoms of another element. The third theory is that atoms of one element are identical to each other but different from atoms of another element. The last theory is that atoms combine in specific ratios.

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