Name:

Date: Block:

**Nature of the Matter Pre-Test**

1. Which of the following makes up a molecule of water?
   1. One atom of hydrogen and one atom of oxygen
   2. One atom of sodium and one atom of chlorine
   3. One atom of hydrogen and two atoms of oxygen
   4. Two atoms of hydrogen and one atom of oxygen
2. The space surrounding the nucleus of the atom contains…?
   1. Protons
   2. Electrons
   3. Neutrons
   4. Ions
3. What type of electron is available to form bonds?
   1. Valance
   2. Nucleus
   3. Ionic
   4. Covalent
4. A substance with a pH of 6 is called?
   1. An acid
   2. A base
   3. Both an acid and a base
   4. Neither an acid or a base
5. The three particles that make up an atom are…?
   1. Protons, neutrons, and isotopes
   2. Neutrons, isotopes, and electrons
   3. Positives, negatives, and electrons
   4. Protons, neutrons, and electrons
6. Isotopes are atoms of the same element with the same number of protons and…?
   1. A different number of electrons
   2. A different number of molecules
   3. A different number of neutrons
   4. The same number of neutrons
7. A covalent bond is formed as the result of…?
   1. Transferring electrons
   2. Sharing electrons
   3. Transferring protons
   4. Sharing protons
8. An ionic bond is formed as the result of…?
   1. The actual sharing of electrons
   2. The release of energy
   3. The transfer of electrons
   4. Chemical energy
9. The nucleus of an atom is made of…?
   1. Protons and electrons
   2. Electrons and neutrons
   3. Protons and neutrons
   4. Protons, neutrons, and electrons
10. What type of ion forms when an atom loses electrons?
    1. Neutral
    2. Positive
    3. Negative
    4. Possible positive and negative