

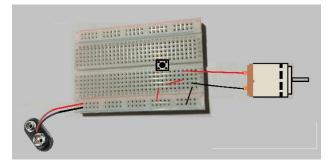
Basic Electronics Series

Assignment Lesson Two: Atomic Structure

1. Build the simple Light Emitting Diode circuit on the breadboard as shown in the lesson 2 supplemental.

2. Build the simple DC Motor circuit on the breadboard as shown

here.



3. What is the polarity of each of the following Atomic particles?

Neutron Neutral

Electron Negative

Proton Positive

- 4. What is an ION? A Charged Atom
- 5. What is the term for the electrons in the outer shell of an Atom? Valence electron
- 6. What determines the Atomic number of an Atom?

 The number of Protons in the nucleus

- 7. What is the unit for electrostatic charge? Coulomb
- 8. How many outer shell electrons are there in the following materials?

Semiconductors Four

Insulators More than four

Conductors Less than four

- 9. When referring to Static electricity, what does ESD stand for? Electro-Static-Discharge
- 10. Define:

Electric Current Charge in Motion

Voltage Electrical Pressure

Electrical Resistance Opposition to current flow

11. Extra Circuits to experiment with:

