**Name: Period:**

**PSB Unit 1 – Matter**

**Structure of the Atom Worksheet**

**Directions:** *Answer the following questions on the lines provided.*

**1.** How is the chemical symbol of an element written?

**2.** What are atoms composed of?

**3.** Are electrons, protons, or neutrons the smallest particles? If not, what are?

**4.** How many types of quarks are there? Name of one of them.

**5.** Why do scientists use models to study atoms?

**6.** Why has the atomic model changed over time?

**7.** Why is the current atomic model called the “Electron Cloud Model”?

**Directions:** *Match the term in Column I with the definition in Column II. Write the letter of the correct definition  
in the blank at the left.*

**Column I**

**8.** electron

**9.** neutron

**10.** nucleus

**11.** proton

**12.** quark

**Column II**

**a.** positively charged particle

**b.** negatively charged particle

**c.** neutral particle

**d.** smaller particles that make up  
protons and neutrons

**e.** positively charged center of an atom