

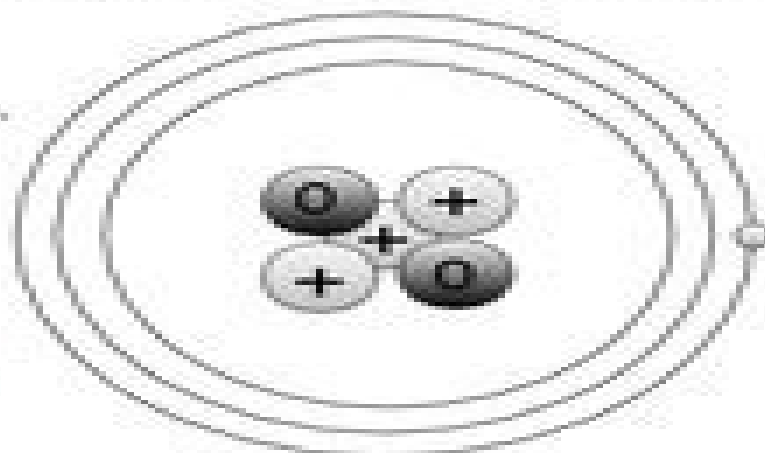
## Structure of an Atom Guided Notes

Atoms are the building blocks of **matter**. They are the smallest particle into which an **element** can be **divided** and still retain its identity. An **element** is matter that is made up of only one type of atom.

Atoms have substructure of their own. They have a **nucleus**, which contains **protons** and **neutrons**. Protons have a **positive charge** and a mass of **1** amu (atomic mass unit). Neutrons have **no charge** and are

also measured at 1 amu. The number of protons in the atomic nucleus, which is the **atomic number**, is the defining characteristic of each element.

**Electrons**, which have a **negative charge** and a mass of almost zero, are located in an area surrounding the nucleus called the **electron cloud**. The way electrons react between charged particles explains the way atoms form **molecules**.



### WORD BANK

Matter atomic number electrons molecules no charge positive charge  
divided element nucleus protons electron cloud neutrons element

# Guided Notes The Atom

**J Elliott**



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