

# THE ATOM MODEL



Ti  
Titanium  
47.867

Mn  
Manganese  
54.938

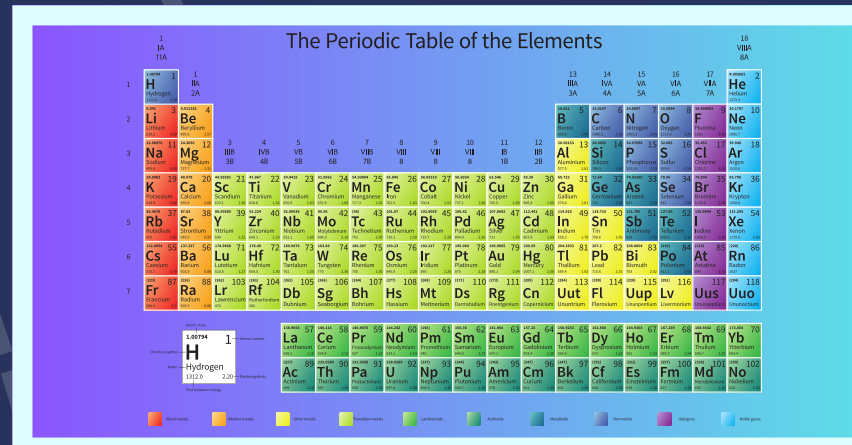
K  
Potassium  
39.098

There are as many types of atoms as there are chemical elements. They are listed in the Periodic table.

## STRUCTURE OF THE ATOM

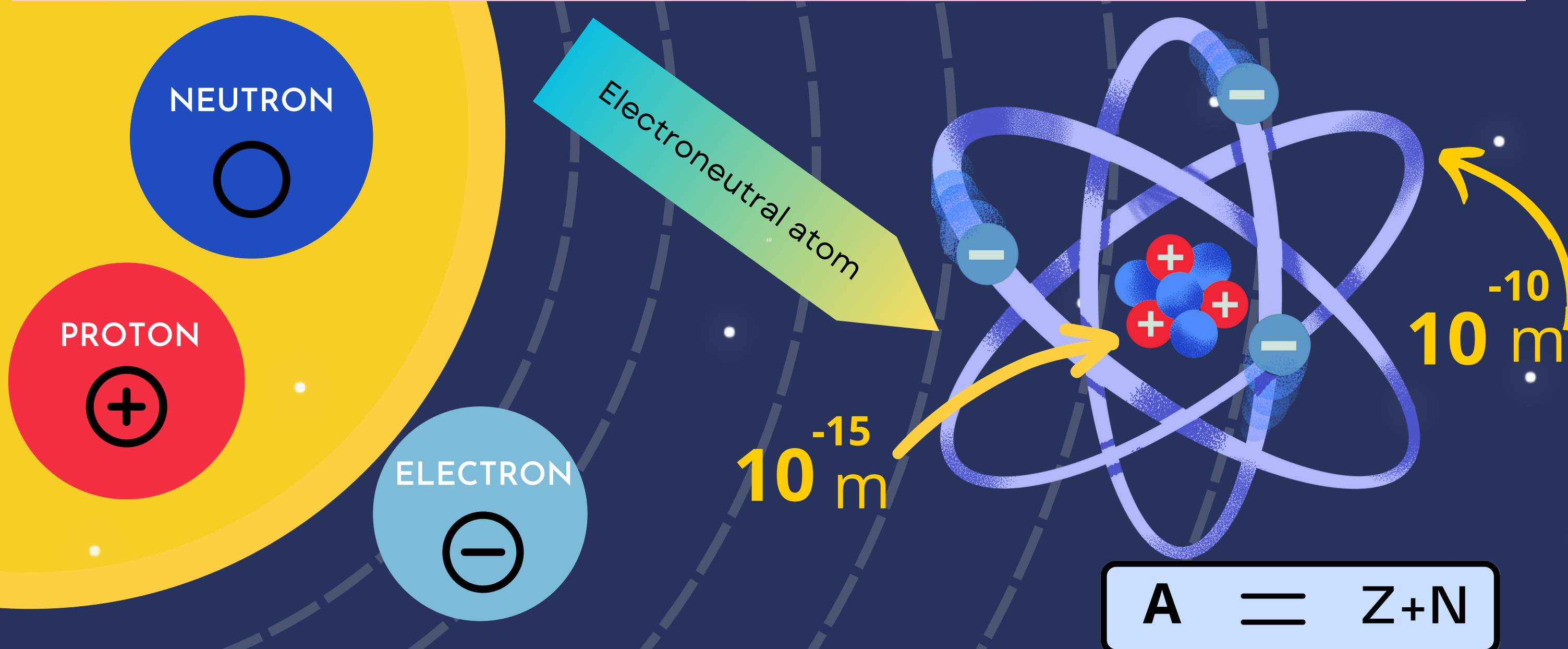
Atoms have a central positive nucleus and are surrounded by orbiting electrons.

The nucleus contains protons and neutrons. The total number of protons (Z) and neutrons (N) is called the mass number A.



The Periodic Table of the Elements

**THE NUMBER OF ELECTRONS = THE NUMBER OF PROTONS**



## NUCLEAR MODEL (1911)

E.Rutherford

(1871-1937)

Creator of the nuclear model (1911) and theory of the structure of the atom. Rutherford's model resembles the solar system.