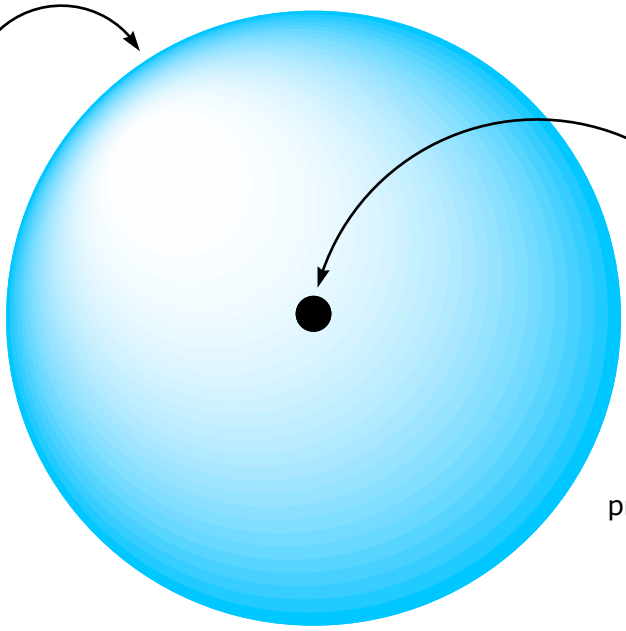
ATOMS OF THE ELEMENTS

electron "cloud"

where subatomic particles called **electrons** are found

electrons give an element its chemical properties

electron has a negative charge



nucleus

where subatomic particles called **protons** and **neutrons** are found

these make up most of the mass of an atom

proton has a positive charge

atomic number

defines an **element**

equals **number of protons** in the nucleus

30

Zn

65.39

atomic symbol

atomic weight

average mass of all an element's **isotopes**

nuclides

atoms with definite **atomic number** and **mass number**

^{64}Zn

^{70}Zn ^{66}Zn

^{68}Zn ^{67}Zn

mass number

number of protons plus number of neutrons