

Science meets Dharma - Chemistry

Name:..... Date: 30.4.2005

- 1 The brownian motion is the...
 - movement of the protons only.
 - movement of the molecules only.
 - movement of the electrons only.
- 2 How many neutrons do we find in an iodine atom?
- 3 Name the experiment to show that the atoms are nearly empty.
- 4 How can we prove the different size of water and alcohol molecules? Describe the experiment!
- 5 The mass number of astatine is 210. This means there are
 - 210 protons?
 - 210 electrons?
 - 210 protons and neutrons?
- 6 How many orbits has:
 - helium?
 - oxygen?
 - sodium?
 - calcium?
- 7 Draw the molecules of:
 - HCN
 - O₂

8 Draw the anions or cations of the given elements:

Cl

magnesium

Li

sulphur

(Draw all the orbits)

9 Ionic equation for:



10 Complete the chemical reactions for the following molecules:



2 OI₂

S₂ + Se₂



11 Is the number of H₂ in 1 m³

bigger than in 1 m³ O₂?

as big as 1 m³ O₂?

smaller than 1 m³ O₂?

12 Explain the difference between compound and mixture.