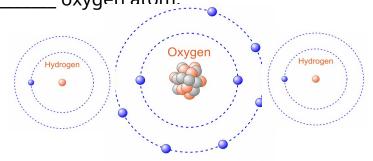
Lesson 1.1 – Composition of Matter

•	Matter is made of	_ that cannot be broken apart.
•	Atoms are mostly space, but inside atoms there are three kinds of particles:	
	• and in the nucleus of the atom.	
	• are outside the	ne nucleus. Proton Neutron
•	Examples of atoms o Hydrogen 1 proton o neutrons lelectron o Oxygen 8 protons 8 neutrons 8 electrons	Hydrogen Oxygen
•	The of an atom neutrons in the nucleus.	is almost all in the protons and
•	Electrons have a very	mass.
•	The unit of mass is the	·
•	Protons have ae	_
	have a electric charge.	

- Neutrons have a _____ charge
- Two or more atoms attached together are a ______.
- The connections between atoms in a molecule are called

• Example – a molecule of water (H₂O) has _____ hydrogen atoms and _____ oxygen atom.



- The dimensions of matter are described as ______.
- The unit of length is the _____ (m).
- The flat surfaces of matter are described as surface
- The unit of surface area is ______ (m²).
- The space matter occupies is described by its

The unit of volume is ______ (m³).

- (iii)
- 1 meter (m) = _____ centimeters (cm)
- 1 centimeter (cm) = _____ millimeters (mm)
- 1 meter (m) = _____ millimeters (mm)

- 1 kilometer (km) = _____ meters (m)
- 1 meter cubed (m²) = _____ liters (L)
- 1 liter (L) = _____ centimeters cubed (cm²)
- 1 centimeter cubed (cm²) = ____ milliliter (mL)
- 1 liter (L) = _____ milliliters (mL)