DAY 2

**TOPIC: ATOMS AND MOLECULES.**

Aims :

* Explain what an atom is.
* Explain what a molecule is.
* Differentiate between an atom and a molecules.

Notes:

**Atoms** are the simplest form of matter. An atom consists of a **single** particle of matter.

**Molecules** are made up of **two or more atoms joined together by chemical bonds.** In molecules, the atoms chemically joined together may all be the same or they may be different.

If we were to represent particles, using shapes, to help us understand.

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| **Particle** | **Atom or molecule** | **Reason** |
|  | Atom | Because it is a single (one) particle. |
|  | Molecule | The two circles show that it is made up of not a single (one) particle, but it is made up of 2 particles (atoms) and the line connecting the 2 circles, shows that the 2 particles (atoms) are chemically connected together. This agrees with our definition. |
|  | Molecule | Because it is not a single particle (atom). It is made of 3 particles (atoms) and the particles are chemically joined together. Although it is made up of two different atoms (circles and squares) it is still a molecule, because molecules can be made up same atoms (all circles or all squares) or it can be made of different atoms (circles + squares). |
|  | Atom | Because it is made up of a single (one) particle. |

Activity :

Study the diagrams below (diagrams 1-25). Under each diagram, indicate whether it is an atom or a molecule.

