# CLASSIFICATION OF MATTER:

## MATTER

### PURE SUBSTANCE

**ELEMENT:**
The purest form of matter; cannot be broken down into simpler substances.

**COMPOUND:**
A pure substance made of 2 or more different elements joined or chemically bonded together.

### IMPURE SUBSTANCE OR MIXTURE

**SUSPENSION:**
Tiny particles evenly suspended throughout another substance. Suspensions can be gas or liquid-based.

**MECHANICAL MIXTURE:**
A mixture whose components can be separated by mechanical means. Particles in a mechanical mixture are not mixed evenly; they stay together in groups. The particles in a mechanical mixture are easy to distinguish from each other. Can be solid or liquid-based.

**SOLUTION:**
The particles in a solution are evenly mixed throughout the other substance. Solutions are most commonly transparent and their particles are difficult to distinguish from each other. In solutions, solutes are dissolved in solvents. Solutions can be solid, liquid, or gas-based.

**HETEROGENEOUS**

**HOMOGENEOUS**