

4. Classifying Matter

A. Pure Substances

- one type of particle, a particle may be an atom or a molecule

1. Elements

- simplest form of matter
- made up of only 1 type of atom
- the periodic table lists all the different kinds of elements in the Universe
- Most elements are unstable

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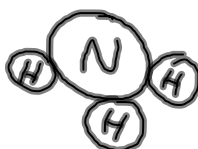
2. Compounds

- made up of 2 or more types of atoms connected together to form molecules
- There are millions of different compounds in the Universe
- Most compounds are stable

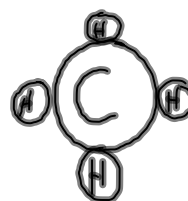
Water (H_2O)



Ammonia (NH_3)



Methane (CH_4)



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B. Mixtures

-made up of more than one type of particle

-the type of mixture is based on how the particles are mixed

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If you can see the different types of particles it is called a mechanical mixture

If the mixture looks the same but settles out (Ketchup) the mixture is called a suspension

If the mixture looks the same and stays the same it is called a solution

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