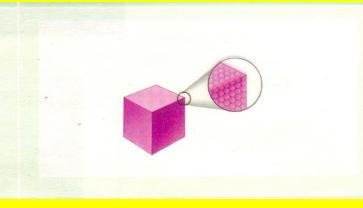
Elements and Compounds

Particle Theory of Matter

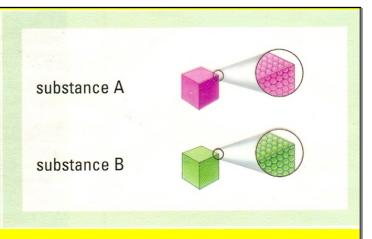
Democritus, 2000 years ago

1. All matter is made up of tiny particles.

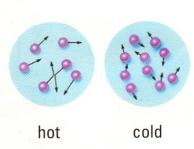


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2. All particles of one substance are the same. Different substances are made of different particles.

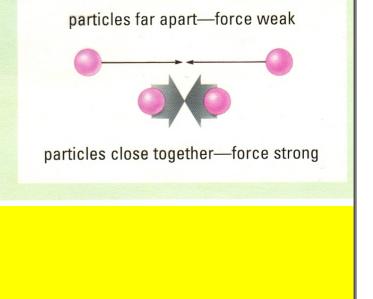


3. The particles are always moving. The more energy the particles have, the faster they move.



Oct 18-9:15 AM

4. There are attractive forces between the particles. These forces are stronger when the particles are closer together.



Elements or Compounds

Scientists asked the question: If there are such things as pure substances, what are they?

-a pure substance can be either a compound or an element

Elements

-are pure substances that cannot be broken down into simpler substances

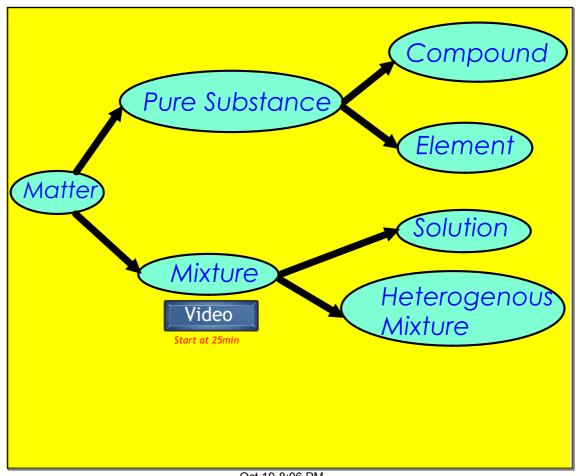
Compounds

-are pure substances that consist of one or more elements in a fixed proportion

Atoms or Molecules

- -scientists use the term "atom" to refer to the particles that make up each
- -atoms join together in combinations to create molecules
- -molecules can contain two atoms or many thousands
- -atoms of the elements can combine in many different ways to create many different substances

Oct 24 - 8:19 PM



Oct 19-8:06 PM