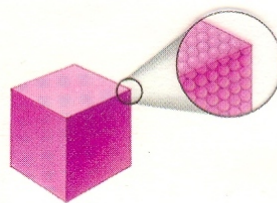


Elements and Compounds

Particle Theory of Matter

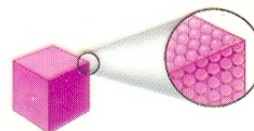
Democritus, 2000 years ago

1. All matter is made up of tiny particles.

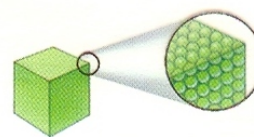


2. All particles of one substance are the same. Different substances are made of different particles.

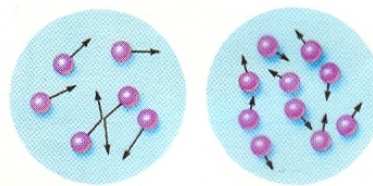
substance A



substance B



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

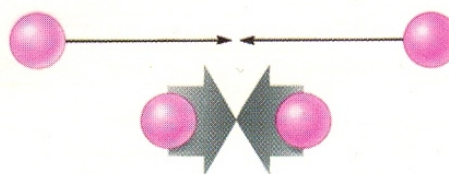


hot

cold

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

particles far apart—force weak



particles close together—force strong