

1: Diffusion	3: Chemical Reactions	5. Forces
<b>diffusion</b> the net movement of particles moving from a region of high concentration to an area of low concentration <b>concentration</b> the amount of particles of a substance in a set volume <b>exchange</b> the act of giving one thing and receiving another <b>net movement</b> the overall movement <b>particle</b> the smallest unit of a substance	<b>molecule</b> 2 or more atoms bonded together <b>chemical reaction</b> a process which involves the rearrangement of atoms to form new substances <b>reactants</b> the substances found at the beginning of a reaction <b>products</b> the new substances produced at the end of a reaction <b>physical change</b> a process which involves the rearrangement of particles but no new substance is formed <b>precipitate</b> an insoluble solid formed from a reaction	<b>force</b> a push or a pull effect <b>contact force</b> a force produced by two objects touching <b>non-contact</b> a force produced when two objects are not touching <b>friction</b> a force that goes against a moving object <b>air resistance</b> a force created by air particles acting against a moving object <b>normal contact</b> a force applied to an object by a supporting surface <b>upthrust</b> an upward force created by water against floating objects
2: Cell Structure	4: Combustion and Oxidation	6: Weight, Mass and Gravity
<b>alveolus</b> tiny air sacs in the lungs where gas exchange occurs <b>stomata</b> small opening on the surface of a leaf where gas exchange occurs <b>diaphragm</b> a sheet of muscle found under the ribs <b>ribs</b> bones that encase and protect the lungs, heart and other organs. <b>intercostal muscles</b> muscles in between the ribs that help move the ribcage <b>inhale</b> the process of breathing air into the lungs <b>exhale</b> the process of breathing air out of the lungs	<b>combustion</b> the reaction between a fuel and oxygen <b>oxidation</b> the addition of oxygen to an element <b>oxide</b> the second name of a substance to indicate that oxygen is joined e.g. <i>calcium oxide</i> <b>fuel</b> a substance that is burned to release energy <b>mean</b> <i>a type of average to make results more reliable and increase accuracy</i> <i>Calculated by added all values together</i>	<b>weight</b> the force an object applies downwards due to gravity <b>mass</b> the amount of matter in an object <b>gravity</b> the force that attracts an object to the centre of the earth <b>gravitational field strength</b> the strength of the gravity acting on an object  <b>Equation</b> $\text{Weight (N)} = \text{Mass (kg)} \times \text{Gravitational Field Strength (N/kg)}$