Y8 Elements, compounds
and mixtures

Learned	Revised	Confident
	% Achieved:	

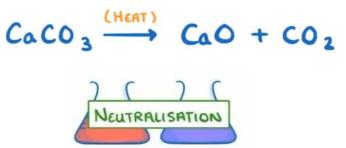
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	GROUPI	GROUP 2						_				1	GROUP 3	Group +	GROUPS	GROUP 6	GROUP 7	_
2	Li	Be						'н					"в	"c	'N	°0	F	20 Ne
	3	6						1					5	6	7	8	٩	10
3	23 Na	Mg											27 Al	Si	³ P	³² S	35.5 CI	40 Ar
1		12								_			13	14	15	16	17	18
	39	*°Ca	Sc	+s Ti	51	52 Cr	Mn	56 Fe	Co	54 Ni	63.5 Cu	Zn	Ga	T3 Ge	75 Oc	79 Se	Br	St.
4	19		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
_	85	88	89	al Zr	93 Nb	96	99	Ru	Rh	IO6 Pd	106	"2 Cd	115	Sn	122 Sb	Te	127	131
5	Rb	Sr	39	1.00		Mo	TC	Ru	Rh	Pd	Ag	La	Iŋ	50	50	52	53	AC
	133	38		40	4-1 181	42	186	190	192	145	197	201	204	207	209	20	210	222
6	Cs	137 Ba	57-71	HF	Ta	W	Re	Os	Ir	Pt	Au	Hg	TI	Pb	Bi	Po	At	Rn
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7	223 Fr	226 Ra	89-103															
1	87	88	Астанов															

%	Achieved:

N°	Keyword	Definition
1	Element	A pure substance which is made from only one type of atom. Elements are listed on the periodic table.
2	Compound	A pure substance made from two or more different elements which are chemically bonded.
3	Mixture	When two or more compounds or elements are mixed but not chemically bonded
4	Molecule	Two or more atoms which are chemically bonded
5	Atom	The smallest particle of an element. They are made from smaller particles called protons, neutrons and electrons.
6	Periodic table	A table which lists all of the chemical elements and arranges them in order of atomic (proton) number
Heliu		$ \begin{array}{c} $
N°		Fact
1		compound are bonded in a fixed ratio, this is a chemical la e.g. water is $\rm H_2O$ and carbon dioxide is $\rm CO_2$
2		ounds apart is difficult, the chemical bonds need to be chemical reaction such as thermal decomposition
3	·	to separate as they aren't bonded. We can use filtration, stallisation, distillation or chromatography
4	We can repre	sent chemical reactions in word or symbol equations Reactants → Products

		dotherm nermic p						
Leari	ned	Revised	Confident	Energy				
		% Achieved:		PROGRESS OF REACTION PROGRESS OF REACTION				
N°		Keyword		Definition				
1	Er	ndothermic	A reac	tion that takes in energy from its surroundings, it can usually feel cold				
2	E	Exothermic	A rea	A reaction that releases energy to its surroundings, it usually feels warm				
3		Variables		These are the things that are changed (independent), measured (dependent) and kept the same (control) in an investigation				
4	(Conclusion	invest	A conclusion describes what has been found in an investigation. It should describe the pattern, use data and explain the findings using scientific knowledge.				
5	E	Evaluation	looking	aluation judges how reliable the conclusion is by g at the results and method. Improvements to the method with explanations should be given.				

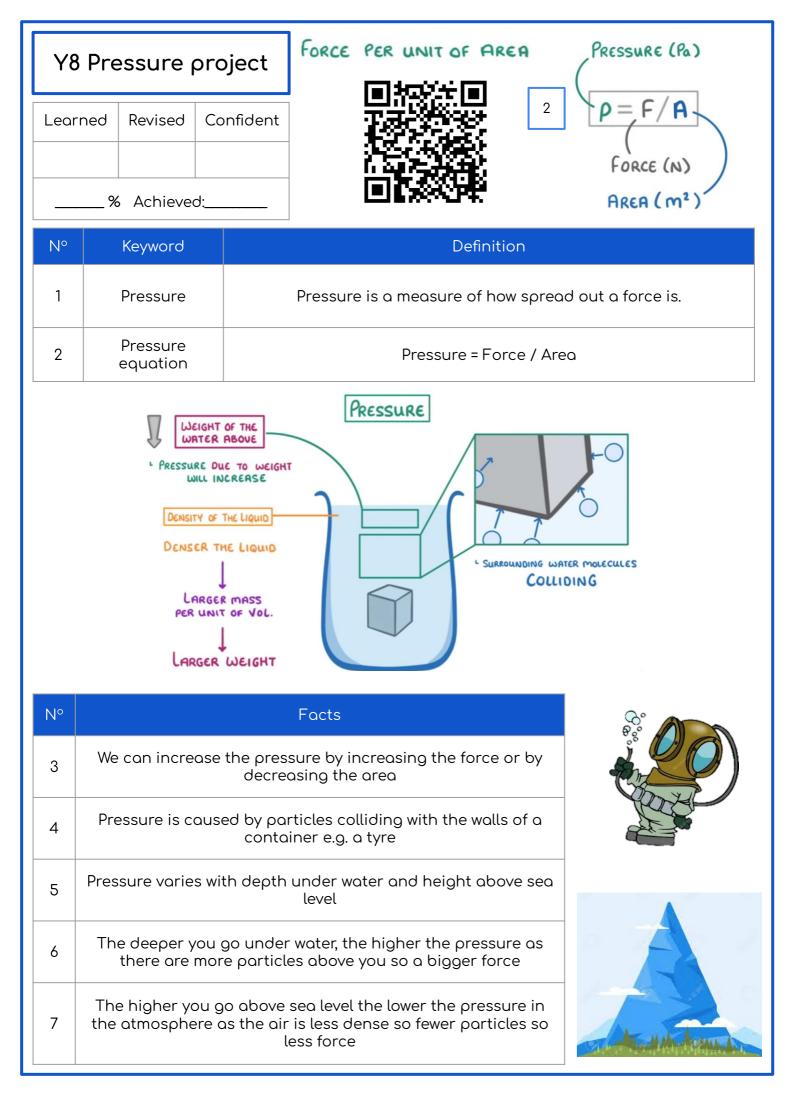




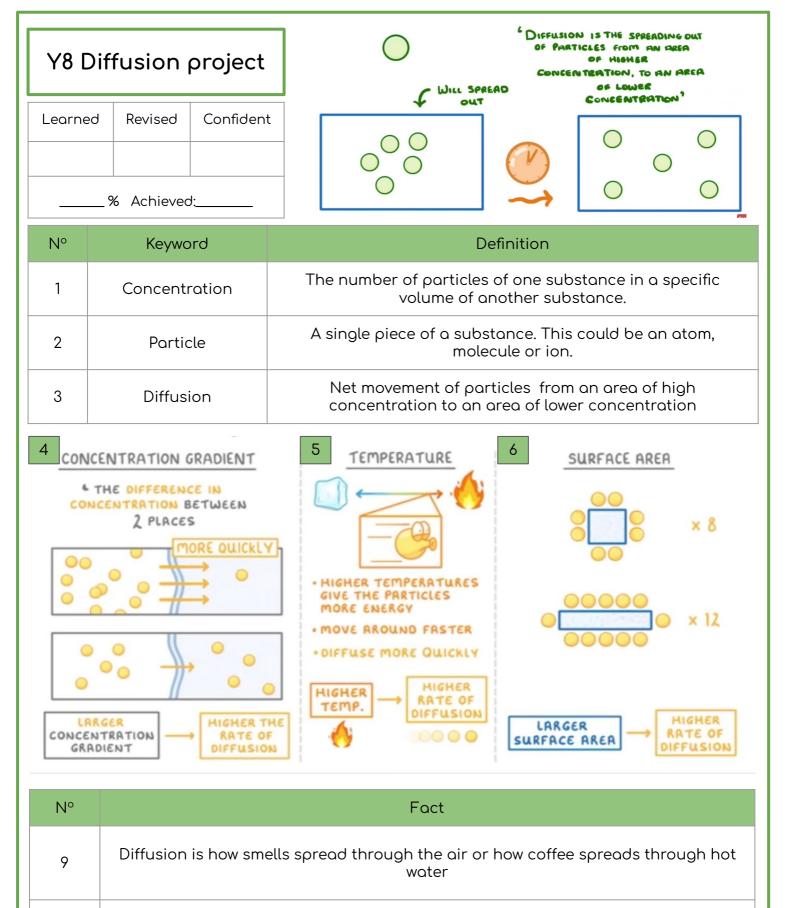


N°	Fact
1	Some examples of endothermic reactions are photosynthesis and thermal decomposition.
2	Some examples of exothermic reactions are respiration, combustion, neutralisation and displacement.
3	Mixtures are easy to separate as they aren't bonded. We can use filtration, crystallisation, distillation or chromatography
4	We can represent chemical reactions in word or symbol equations Reactants \rightarrow Products

Y	8 Respiration	1 AEROBIC RESPIRATION			
Learned	d Revised Confider	$\begin{array}{ccc} & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\$			
N°	Keyword	Definition			
2	Respiration	Chemical reaction in the mitochondria that releases energy			
3	Aerobic	In the presence of oxygen			
4	Anaerobic	In the absence of oxygen			
5	Mitochondria	Subcellular structure where respiration takes place			
6	Fermentation	Anaerobic respiration carried out in bacteria and yeast			
7	Oxygen debt	The amount of oxygen needed to work aerobically or break down the lactic acid.			
8	Gas exchange	The exchange of oxygen and carbon dioxide, usually between the blood and lungs or cells			
Mit	OCHONDRIA 5	9 NOT UNLOCKING ALL ENERGY LACTIC ACID (BUILD UP) HAS TO BE REMOVED			
	10 Gruc	(TYPE of ALCOHOL) DIOXIDE			
N°		Fact			
11	Aerobic respiration is longer lasting than anaerobic respiration, it also releases more energy				
12	Anaerobic respiration is used in in short, fast bursts of exercise e.g. sprinting				
13		used in the brewing and baking industries. The ethanol makes nolic and carbon dioxide makes the bread rise in baking.			



	Y8 Electricit	Y POWER SOURCE CIRCUITS SURCE COMPONENTS
Learn	ned Revised Co	Denfident - 2 OR MORE CELLS WIRE SWITCH OPEN - SMALL LIGHT BULB RESISTANCE
N°	Keyword	Definition
1	Circuit	An electrical circuit is made of components that are connected using wires
2	Component	A part of a circuit e.g. a battery or lamp. They are represented using symbols
3	Circuit symbol	The scientific way to represent different components in a circuit
4	Current	Current is the flow of charge (electrons) around a circuit. It is measured in amps (A)
5	Potential difference	Potential difference is the energy transferred by each unit of charge. It is measured in volts (V)
6	Series circuit	All of the components in a circuit are in one "loop" with only one route for current to flow
7	Parallel circuit	A circuit that has multiple "loops" or "branches", the current can flow around different routes
8	Resistance	How difficult it is for the current to flow
9	CELL BATTERY -	FILAMENT LAMP DIODE CONLY PILLOW CURRENT TO FLOW IN ONE DIRECTION FUSES P OPEN 9 CLOSED FIXED RESISTOR
	Γ Γ	BREAK IF TOO MUCH CURRE O SWITCH O SWITCH
N°		Facts
10	A circuit	has to be complete to work, this is so that the current can flow.
11	If we add comp	onents to a circuit we increase the resistance and this decreases the current
12		lifference in a series circuit is shared between all of the components; it totals the same as the power supply (cell or battery)
L		



10	Diffusion takes place in our organs. It is how oxygen moves from our lungs into our blood.	

11	We can increase the surface area of a solid by cutting it into smaller pieces. This
11	creates more surfaces for diffusion to take place through