Biology

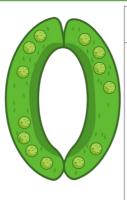
GCSE Human Organisation			1	The heart	Publicary aniny acts patronary aniny acts
Learned	Revised	Confident			ngett atkarr
\$	% Achieved:				tabee to advert the second sec

N°	Ke	yword	Definition			
2	Alveoli		, , ,	ed in clusters throughout the lungs. They ace area for gas exchange.		
3	Benign tumour A growth of abnor a membrane.			mal cells contained in one area, usually within		
4	Carbol	hydrase	An enzyme that brea Eg: Amylase	aks down carbohydrates int	o simple sugars.	
5	Digest	ion	When large insoluble soluble molecules	e molecules are broken dow	n into small	
6	Enzym	е	A biological catalyst	that speeds up the rate of	a reaction.	
7	Lipase		An enzyme that breaks down lipids into fatty acids and glycerol			
8	8 Malignant		A growth of cells that can invade neighbouring tissues and spread to different parts of the body in the blood where they form secondary tumours.			
9	Protease		An enzyme that brea	aks down proteins into amin	io acids	
10 Blood vessels			ARTERIES CARRY BLOOD AWAY FROM THE HEART	CAPILLARIES EXCHANGE TRIENTS + DETRIENTS +		
Trea	Itment	Descripti	on	Advantage	Disadvantage	
Statins A type of drug that red blood cholesterol levels slow down the rate at w fatty material is deposi the coronary arteries.		olesterol levels to n the rate at which erial is deposited in	Can reduce the risk of strokes, CHD and heart attacks.	Long term treatment and negative side effects.		

	the coronary arteries.		
Stents	A metal mesh tube placed in an artery to hold it open.	The success rate is high, they lower the risk of a heart attack and last for a long time.	Drugs needed to stop blood clotting.

GCSE Plant Organisation

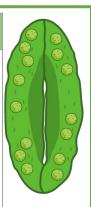
	-		
Learned	Revised	Confident	
% Achieved:			



1

Guard cells

When there is plenty of water, the guard cells swell and become turgid, opening the stomata. When short of water, the guard cell loses water, becomes flaccid and the stomata close. They are also sensitive to light.



		sensitive to light.		
N°	Keyword	Definition		
2	Guard cell	A cell which controls the opening and closing of the stomata.		
3	Meristem tissue	Plant tissue found at the tips of roots and shoots made of actively dividing cells that can differentiate.		
4	Palisade mesophyll	A plant tissue that contains lots of chloroplasts to carry out photosynthesis.		
5	Phloem	A plant tissue that transports dissolved sugars from the leaves to other parts of the plant.		
6	Spongy mesophyll	A plant tissue that contains large air spaces and has a large surface area for diffusion		
7	Stomata	Small openings in the surface of a leaf that allow gases to diffuse into the leaf.		
8	Translocation	The movement of dissolved sugars from the leaves to the rest of the plant, via the phloem.		
9	Transpiration	The loss of water vapour through the stomata.		
10	Xylem	A plant tissue that transports water and mineral ions from the roots to the stems and leaves.		
11	Leof structure (PHOTOSYNTHESIS) PALISAD E MESOPHYLL SPONGY MESOPHYLL LOWER EPIDERMIS	PALISADE CEUS CHIOROPLASTS XYLEM PHLOEM		
		OF THE WATER LEAF LOSS		

Chemistry

GCSE Structure and bonding	METALLIC BONDING COVALENT BONDS SHARE ELECTRONS
Learned Revised Confident % Achieved:	(+) $(+)$
lonie	C BONDS TRANSFER OF ELECTRONS

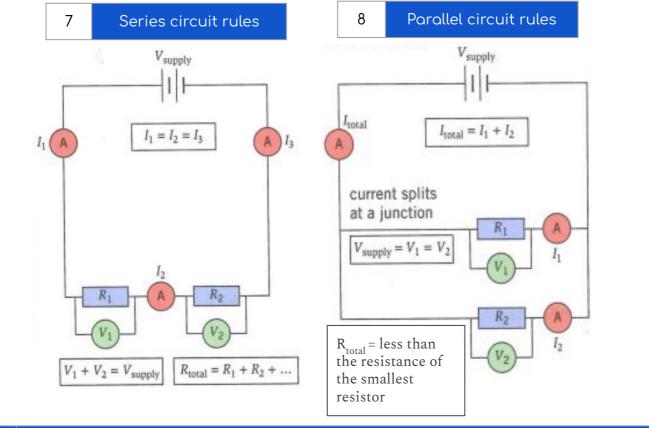
N°	Keyword	Definition
1	Delocalised electron	An electronic that isn't associated with an atom or bond, it is free to move through the structure
2	Metallic bond	Giant structure of positive metal ions in a sea of delocalised electrons- forming strong electrostatic forces of attraction
3	lonic bond	Strong electrostatic forces of attraction between oppositely charged ions (formed from the transfer of electrons)
4	Covalent bond	Shared pair(s) of electrons between non-metal atoms
5	Electrostatic forces	Strong forces of attraction between oppositely charged particles e.g. ions and/or electrons
6	Intermolecular forces	Weak forces of attraction that occur between molecules.

N°	Fact
5	In bonding, atoms look to gain a full outer shell of electrons. They can lose electrons to drop down a shell, gain to fill their shell or share electrons between their outer shell
6	In ionic bonding, the metal atom loses electron(s) to become a positive ion, the non-metal gains the electron to become a negative ion. These ions then form a giant structure.
7	In covalent bonding, atoms share pairs of electrons to fill their outer shells. This can form a simple molecule (e.g. H ₂ O) or a giant structure like diamond.
8	The properties of a substance relate to its structure and bonding. For example, giant structures will generally have high melting and boiling points whereas small, simple structures will have low melting and boiling points

Physics

Ģ	GCSE Electricity		—a_a— Switch (open)	–⊗– Lamp	1 Cir	rcuit symbols
Learr	ned Revised	Confident	Switch (closed)	Fuse		
	% Achieved:		Cell ∸ I I Bottery	Voltmeter Ammeter	Resistor Variable resistor	
N°	Keyword			Definiti	on	
2	Current Flow of		charge, measu	red in ampere	es (A)	
3			sure of how muc it, measured in v		ansferred be	tween two points in
4			ng that opposes ns in the wire), m			ectrons colliding
5	Series circuit Every c		component is co	onnected in a	line (one "loo	ю")

5	Series circuit	Every component is connected in a line (one loop)
6	Parallel circuit	Every component is connected to the battery separately (it has multiple "loops")



N°	Equations to learn
9	charge flow = current × time
10	potential difference = current × resistance

GC	SE Electricit	y (2) 1 Earth wire Live wire		
Learr	ned Revised Co	nfident Neutral wire Fuse		
	% Achieved:	Outer insulation Cable grip		
N°	Keyword	Definition		
2	Alternating current	Current that changes direction		
3	Direct current	Current that flows in one direction only		
4	Step up transformer	Increases the potential difference and decreases the current (reducing resistance and heat loss, and increasing efficiency)		
5	Step down transfer	Decreases the potential difference to a safe level (230V for homes).		
6	The national grid	A network of cables and transformers that links electricity power stations to consumers		
N°		Facts		
7	UK alternatiı	ng current has a potential difference of 230 V and a frequency of 50 Hz		
8	The National Grid	Power station High voltage transmission lines Step-down transformers Step-down transformers		
N°		Equations to learn		
9		power = potential difference × current		
10		power = (current)2 × resistance		
11		energy transferred = power × time		
12	e	energy transferred = charge flow × potential difference		