

Year 10 Baseline test September 2019

Biology		Answer
1	What factors can affect the rate of photosynthesis?	Light intensity, temperature, carbon dioxide, water and chlorophyll
2	What is the word equation for aerobic respiration?	Glucose $\rightarrow$ lactic acid
3	Which neurone takes electrical messages from a receptor to the central nervous system?	Sensory neurone
4	Which two things make up the central nervous system?	Brain and spinal cord
5	The gap between two neurones is called a?	Synapse
6	What endocrine gland produces insulin and glucagon?	Pancreas
7	Is insulin produced in response to too much glucose in the blood or too little?	Too much sugar
8	What hormone involved in the menstruation cycle causes ovulation (the release of an egg)?	Luteinising hormone- LH
9	Is Polydactyly caused by a dominant or recessive allele?	Dominant
10	The development of a new species is called what?	Speciation
Chemistry		
1	What do acids produce when dissolved in water?	Protons
2	What is pH a measure of?	Concentration of hydrogen ions
3	When you react an acid and metal oxide together what is produced?	Salt and water
4	Metals can be extracted from their ores using what process?	Electrolysis
5	What is the term used to describe a negative electrode?	cathode
6	What is the term used to describe a positive electrode?	Anode
7	What four things does the rate of reaction depend on?	Temperate, Concentration or pressure, Surface area, catalyst
8	In a reversible reaction if one direction of the reaction is endothermic, what must be the other direction be?	Exothermic
9	In order for a reaction to occur, particles must collide with enough what?	Energy
10	What is the symbol for a reversible reaction?	$\rightleftharpoons$
Physics		
1	What types of waves have sideward vibrations?	transverse
2	What is the equation to work out wave speed?	Wave speed= frequency x wavelength
3	What types of waves have parallel vibrations?	Longitudinal
4	All waves can be Absorbed, transmitted and ..... ?	reflected
5	What is the term used to describe when waves change directions at a boundary?	refraction
6	What types of Electromagnetic waves are used in communication satellites?	Microwaves
7	What type of radiation can be used to increase or monitor temperature?	Infrared
8	Who replaced the plum pudding model with the nuclear model of the atom?	Rutherford
9	What type of decay decreases the charge and mass of the nucleus?	Alpha
10	What type of decay increases the charge of the nucleus?	beta