Hull Trinity House Academy

Additional Science Revision Timetable February – June 2017

Additional Science Revision Countdown!

w/c	Monday	Tuesday	Wednesday	Thursday	Friday	Weekend
20/2/17	Describe and explain aerobic respiration	Describe and draw examples of covalent bonding	Explain the difference between atomic mass & number	Describe speed time graphs	Explain what glycogen is and the role in the body	Explain the equations to how salts are formed
	Describe and explain what half life is	State the structure + function of animal & plant cells	Describe a reversible reaction and knows its symbol	Knows how to work out relative atomic mass (A_r)	Create a set a flash cards for P2	Describe, explain & draw the stages of mitosis & meiosis
27/2/17	Describe how elements form compounds	Can calculate power equations	Explain the factors that speed up digestion	Compare the use of a fuse and RCCB	Describe rate of reaction is & how it's worked out	Compare current – pd graphs for resistor, bulb and diodes
	Describe and draw examples of metallic bonding	Explain the difference between LDR and thermistors	Knows how to work out relative formula mass (M_r)	Construct a genetic diagram to show how sex is determined	Describe and explain the structure of the atom	Construct punnett square to show how conditions are inherited in humans
6/3/17	Describe & explain the properties & charge of alpha radiation	Describe how enzymes are used in industry and at home	What are nanoparticles?	Describe the differences between bacteria & yeast	Describe the difference between protostar & main sequence star	What are the benefits and risks of nanoscience?
	Describe acids and alkalis in terms of ions	Write nuclear equations for alpha decay	Describe why Gregor Mendel is so important	Explain how elements are formed inside stars	List examples of endo and exothermic reactions	Practice working out the % of an element in a compound
13/3/17	Explain how plants use glucose	Can describe and explain nuclear fission	Define an isotope	Link the idea of car safety to momentum	Can give modern day uses of alpha, beta & gamma radiation	Argue the social, economical & ethical issues of stem cell use
	Explain velocity & the equation for acceleration	(HT) can practice balancing equations	Describe and explain terminal velocity	Describe and explain anaerobic respiration	Describe hookes law and F =kx	Describe the lifecycle of large and small stars
20/3/17	Explain what DNA is	Explain & describe the big bang	Describe photosynthesis and its limiting factors	Describe distance time graphs	Can describe and explain nuclear fusion	Explain the differences between thermosetting

	Can calculate W = Fd	Describe the process of electrolysis	Describe what intermolecular forces are	Describe & explain the properties & charge of beta radiation	Create a set a flash cards for B2	(HT) work out the empirical formula from its % composition
27/3/17	Explain how fossils are formed & how organisms have changed over time	Explain how the moderator, control rods work in a nuclear reactor	Explain the difference between mass and velocity using W=mg	Describe and draw examples of ionic bonding	Explain and describe charges on static electricity	Explain the differences between thermosetting & thermosoftening
	Can draw all the circuit symbols	List & explain factors that affect organism distribution	Explain background radiation & give examples	Can calculate kinetic energy and gravitational potential energy	State how you write the formulae of ionic compounds	Compare the nuclear model to the plum pudding model
3/4/17	Explain how you a wire a plug safety	Describe how enzymes are used in digestion	Can calculate current, charge and potential difference.	Understand what a mole is	Can compare and contrast nuclear fission and fusion	Explain how surface area, temperature, concentration & catalysts effect rate of reactions
10/4/17	Describes the pros and cons of instrumental methods of analysis	Knows the difference between ionisation and penetrating	Explain why elements of G1 bond with G7	Compare and describe AC and DC	Can describe and calculate resistance	List and explain reasons for extinction
17/4/17	State the structure & function of specialised cells	Explain what happens at the cathode and anode	Describe & explain the properties & charge of gamma radiation	Describe and give examples of tissues and organs	Create a set a flash cards for C2	Use balanced equations to calculate the reacting masses
24/4/17	Describe the properties of giant ionic structures	Describe what Ernest Rutherford investigated	Explain how we use paper chromatography to analyse food additives	Write nuclear equations for beta decay	Explain in detail how enzymes are effected by pH & temperature	Describe series and parallel circuits
1/5/17	Calculate F =ma calculations	List animal and plant organs	Explain and describe ohms law	Describe how we use gas chromatography	Describe stem cells and explain their importance	Compare and contrast ionic, covalent and metallic bonding
8/5/17	Describe the importance of the Earth wire & fuse	Calculate the % yield of a reaction	Explain what mass spectrometry is	Describe how you measure the distribution of organisms	Describe resultant forces and why it could be zero	Explain the advantages & disadvantages of nuclear power

15/5/17	Describe what an enzyme is	Describe in detail what collision theory is	Describe the properties of simple molecules	Describe the difference between neutrons, protons & electrons	Describe the factors that affect stopping distances	Describe the properties of polymers
22/5/17	Describe the properties of giant metallic structures	Describe & calculate the area under a velocity-time graph	List reasons why chemical reactions yield is less than 100%	Explain the electrolysis of brine and electroplating	Can calculate half life from graphs	Practice all the calculations equations from C2
29/5/17	Describe how aluminium is extracted	Can explain & describe current, charge and potential difference.	What is the difference between endo and exothermic	Explain the difference between a red giant & super red giant	Describe the properties of giant covalent structures	Practice all the calculations equations from P2
5/6/17	Explain and calculate momentum	Describe diffusion & what effects the its rates	Mindmap the whole of B2	Complete B2 6 mark questions	**B2 Exam 0900 Sports Hall**	Mindmap the whole of P2
12/6/17	Mindmap the whole of C2	Complete C2 6 mark questions	**C2 Exam 0900 Sports Hall**	Complete P2 6 mark questions	**P2 Exam 0900 Sports Hall**	

Physics - http://www.aqa.org.uk/subjects/science/gcse/physics-4403/past-papers-and-mark-schemes

Biology – http://www.aqa.org.uk/subjects/science/gcse/biology-4401/past-papers-and-mark-schemes

Chemistry - http://www.aqa.org.uk/subjects/science/gcse/chemistry-4402/past-papers-and-mark-schemes

BBC Bitesize support - http://www.bbc.co.uk/education/subjects/zrkw2hv