

**Triple Science
Revision Timetable
February – June 2017**

Triple Science Revision Countdown!

w/c	Monday	Tuesday	Wednesday	Thursday	Friday	Weekend
20/2/17	What role did John Newlands have the design of the periodic table	Explain why X-rays are dangerous	Describe the process of transpiration	Explain what a precipitate is.	Explain the law of reflection	Link loss of biodiversity to deforestation & the destruction of peat bogs
	Can calculate magnification produced by a lens	Describe and explain the test for positive ions (flame & NaOH)	Explain the difference between magnets and electromagnets	Describe & explain osmosis using animal & plant examples	Explain how a loudspeaker works	List and explain the properties of the transition metals
27/2/17	Explain what ultrasound waves are	Explain how the lungs are adapted to gas exchange	Describe and explain the reactivity in group 7	Describe what embryonic stem cells are	Describe & explain how to carry out a titration	Explain Flemmings left hand rule
	Describe & explain the test for negative ions (carbonates, halide & sulfates)	Describe total internal reflection	Describe images formed by a converging lens	Describe neutralisation & displacement reactions	Explain what centre of mass is	Explain & describe how your circulatory system works
6/3/17	Describe & explain active transport using animal & plant examples	Explain what a transformer does	Describe how we make and use carboxylic acids & esters	Explain how an electric motor works	Describe how a CT scanner works	Practice titration calculations
	Describe and explain the features that effect stability	How is limescale formed?	How do we manage the ocean & mycoprotein for food production	What is produced when ethanol is oxidised	Describe eutrophication and explain its effects	Draw and label the features of the eye and explain how the eye works
13/3/17	Describe activation energy & affect catalysts	Complete calculations using the refractive index	What are isotonic drinks	Describe uses of electromagnets	What are the differences between 3 blood vessels	Describe and explain how water is made safe to drink
	Describe in detail how the body controls temperature	Compare a CT scan with an MR scan	What did Mendeleev do about missing elements?	Explain & describe properties of diverging - concave lenses	Compare long and short sightedness	Explain and describe how we breathe using diagrams

20/3/17	Describe and explain what biodiversity is	Describe the reaction of G1 elements in water	Calculate the power of the lens	Describe what the blood consists of	Describe & explain the motion & time period of a pendulum	Explain & describe bond making and breaking
	Explain & describe in detail how the body controls blood glucose	Explain how to increase the force in the motor effect	Draw and label endothermic energy level diagrams	Practice calculations of the transformer equation	Explain and describe the refractive index	Download 3 mocks and mark schemes
27/3/17	Describe of pressure and the practice the calculation equation	Why do we soften water?	What is a kidney transplant and what are the risks?	Describe images formed by a diverging lens	Explain what determines chemical properties	Explain the greenhouse effect and describe global warming effects
	What was the law of octaves	Explain how diabetes can be treated	Describe the motor effect	Describe how chemical analysis	Describe the pressure in liquids	Explain & describe how plants are adapted to exchange materials
3/4/17	Explain the difference between temporary & permanent hard water	What is global dimming and describe its associated issues	Describe & explain reactions that are at equilibrium (HT)	Explain how transformers are used on the national grid	Explain & describe how an artificial kidney works	Describe and explain the hydrogen fuel cell
10/4/17	How do artificial lungs work?	Explain the properties & uses of alcohols	Practice drawing and labelling ray diagrams	Explain the halogen displacement reactions	Explain & describe properties of converging – convex lenses	Explain in detail how hard water is softened
17/4/17	Describe how hard water is formed	Calculate the refractive index for critical angle	Describe consequences of burning fuels & H powered cars	Explain what magnetic fields are	Describe the effects of the population explosion	Explain circular motion and factors effecting centripetal force
24/4/17	Describe to ways in which methane can be produced	What are the effects of pressure, temperature & catalysts on Haber process	Explain how hydraulic pressure systems work.	Describe how the gut and villi are adapted to absorb products of digestion	Calculate how we measure the energy released by fuels (SHC)	Describe the issues with using alcohols, carboxylic acids and esters
1/5/17	How is a calorimeter used?	Describe & explain the formation & effects of acid rain	Describe and explain the reactivity in group 1	Describe how the efficiency of transformers can be 100%	Explain how humans pollute land and water	Describe how you find the centre of mass of a symmetrical object

8/5/17	How are internal conditions kept constant and controlled	Describe when a convex forms a real & virtual image	Draw and label exothermic energy level diagrams	Compare and contrast transport in the phloem & xylem	Describe electromagnetic induction	Why do we add fluorine and chlorine to water?
15/5/17	Describe the role of food chains in food production & how it is managed	Explain why transition elements can form ion(s)	Describe and explain the advantages & disadvantages of ethanol use as a fuel	Compare CT scans and ultrasound scans	Describe structures of alcohols, carboxylic acids & esters	Explain advantages & disadvantages of artificial blood and hearts
22/5/17	Practice calculations using bond energies (HT)	Explain what a switch mode transformer is	Explain biogas and biogas generators	What are the advantages & disadvantages of hard water	Explain what an ECG is	Explain how magnets are used to induce a p.d
29/5/17	Explain how physics can be used in hospitals	Explain and describe how ammonia is made and its conditions.	Know the difference between a real & virtual image	Explain how the kidneys work and what is in urine.	Describe difference between a step up & down transformer	Complete a mindmap for the whole of B3
5/6/17	Describe how changing pressure & energy affects equilibrium	Create some key questions flashcards for P3, B3 and C3	Describe and explain the principle of moments	Work on and complete B3 past paper questions	9/6/2017 B3 Exam 1030 Sports Hall	Complete a mindmap for the whole of P3
12/6/17	Complete a mindmap for the whole of C3	Work on and complete C3 past paper questions	14/6/2017 C3 Exam 1030 Sports Hall	Work on and complete P3 past paper questions	16/06/2017 P3 Exam 1030 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>