

Home learning menu – Year 10

Class	Biology	Chemistry	Physics	Activities, links and instructions
10 Seps 1	B12 – Homeostasis, including the human kidney, how it works, dialysis and transplantation. Following this we will look at B18 – Biodiversity	C4 – Calculations (titration calculations, atom economy, gas volumes) C6 – Electrolysis (introduction and half equations)	P4 - Electric Circuits; current-voltage graphs for resistors, lamps and diodes. Also, finding out about LDRs and thermistors	All work is set by the class teacher every lesson on Microsoft teams
10 Seps 2	B11. -Human Reproduction and the hormones involved. The role hormones play in plants. Homeostasis and controlling temperature and the role of the Kidney	C4 – Calculations – reacting masses, percentage yield, atom economy, concentration, titrations, gas volumes	P14 (finishing off) – Lenses, colour, black body radiation. P4 Electric charge, current, potential difference and resistance, ohms law, current-voltage graphs	All work is set by the class teacher every lesson on Microsoft teams
10E1	B10 – Principle of homeostasis (why it is important and why it needs to be controlled, structure and function of the nervous system, reflex action	C2-The periodic table – the layout and history of the periodic table, including patterns of reactivity in group 1 and group 7	P13 – Electromagnetic spectrum, looking at applications of different waves, and may complete and start P4 Electric circuits	All work is set by the class teacher every lesson on Microsoft teams
10E2	B8 – Photosynthesis, equation, limiting factors, maximising photosynthesis, demonstration of required practical.	C5 – Chemical changes – extracting metals from ores, reactions of acids with metal compounds, making salts required practical, pH scale and strong and weak acids	P13 – measuring speed of waves in a solid, then moving onto P4 Electric Circuits	All work is set by the class teacher every lesson on Microsoft teams
10E3	B8 – Photosynthesis, equation, limiting factors, maximising photosynthesis, demonstration of required practical.	C5 – Chemical changes – extracting metals from ores, reactions of acids with metal compounds, making salts required practical, pH scale and strong and weak acids	P13 – Electromagnetic Spectrum – Uses of EM waves (including visible light, infrared radiation, microwaves, radio waves, ultraviolet, X-rays and gamma rays) P4 – Electric Circuits – Current, Charge, Potential difference and	All work is set by the class teacher every lesson on Microsoft teams

			Resistance. Types of circuits (simple vs parallel) and the use of circuit components (bulbs, resistors, LDRs, thermistors, ammeters and voltmeters).	
10E4	B10 – Principles of homeostasis, structure and function of the nervous system, what is a reflex arc and how does it work. Following this we will look at B11 Hormonal Control.	C5 – Chemical changes, including the reactivity series, displacement reactions, writing equations and making salts from metals.	P13 – Electromagnetic spectrum, looking at applications of different waves, and may complete and start P4 Electric circuits	All work is set by the class teacher every lesson on Microsoft teams
10E5	B8 – Photosynthesis, equation, limiting factors, maximising photosynthesis, demonstration of required practical.	C5 – Chemical Changes (making salts, neutralisation, equations, pH scale)	P12 – Wave properties, looking at the nature, properties and uses of waves in addition to reflection and refraction and sound waves.	All work is set by the class teacher every lesson on Microsoft teams
10A+1	B9 – Respiration, aerobic and anaerobic respiration equations, effect of exercise, comparison of anaerobic respiration in yeast and animal cells.	C5 – Chemical changes – extracting metals from ores, reactions of acids with metal compounds, making salts required practical, pH scale	P13 – Electromagnetic spectrum, looking at applications of different waves, and may complete and start P4 Electric circuits	All work is set by the class teacher every lesson on Microsoft teams
10A+2	B10 - Principle of homeostasis (why it is important and why it needs to be controlled, structure and function of the nervous system, reflex action	C2-The periodic table – the layout and history of the periodic table, including patterns of reactivity in group 1 and group 7	Completing P12 – Wave properties, looking at the nature, properties and uses of waves in addition to reflection and refraction and sound waves. Begin P13 – Electromagnetic spectrum, looking at applications of different waves	All work is set by the class teacher every lesson on Microsoft teams
10A+3	B9 – Respiration, including the aerobic and anaerobic respiration equations. Following this we will look at B10 – The human nervous	C5 – Chemical changes – extracting metals from ores, reactions of acids with metal compounds,	P13 – Electromagnetic Spectrum – Uses of EM waves (including visible light, infrared radiation, microwaves, radio waves,	All work is set by the class teacher every lesson on Microsoft teams

	system – including reflex actions and the ruler-drop test.	making salts required practical, pH scale	ultraviolet, X-rays and gamma rays) P4 – Electric Circuits – Current, Charge, Potential difference and Resistance. Types of circuits (simple vs parallel) and the use of circuit components (bulbs, resistors, LDRs, thermistors, ammeters and voltmeters).	
10A+4	B13 – Reproduction – Sexual vs Asexual reproduction, advantages and disadvantages, meiosis and mitosis. SRD - B15 Genetics and evolution, looking at history of evolution, evidence of evolution and classification. LR – B7 of Start Non-communicable diseases	None	None	All work is set by the class teacher every lesson on Microsoft teams