

Home learning menu – Year 10

Unit – brief detail. Later to begin....

C5 – Making salts, neutralisation and the pH scale. Later to begin C2 The periodic table, to learn about the electronic structures of elements in different groups of the periodic table

Class	Biology	Chemistry	Physics	Activities, links and instructions
10 Seps 1	B18 – Trophic levels, pyramids of biomass, energy transfer and energy loss in a food chain, the idea of efficiency in food production. Later moving onto B16 – Adaptations, interdependence and competition. A look at populations and the distribution of organisms depending on biotic and abiotic factors in their ecosystems.	C6 (Electrolysis) - Ionic bonding recap, Process of electrolysis, Half equations, Electrolysis of Aluminium Oxide, Electrolysis of Sodium Chloride, Electrolysis of Brine, Required practical method overview Later moving on to C7 (Energy Changes)	P5 – Electricity in the home, 3 pin plug, power calculations and the National Grid Later moving onto P15 – Magnetism and Electromagnetism	All lessons are live and any work set by the class teacher will be set through Microsoft teams
10 Seps 2	B18 – Trophic levels, pyramids of biomass, energy transfer and energy loss in a food chain, the idea of efficiency in food production. Moving to B12 and the role of the Kidneys in maintaining a water balance	C4 – Chemical Calculations: % yield, atom economy, concentration, gas volumes, titrations. Later to begin C6 - Electrolysis	P4 – Completion of the work on electrical circuits from before half term. P5 – Electricity in the home, 3 pin plug, power calculations and the National Grid Later moving onto P15 – Magnetism and Electromagnetism	All lessons are live and any work set by the class teacher will be set through Microsoft teams

10E1	B11 – Hormonal Control: Principles of hormonal control, controlling blood glucose, the role of negative feedback, human reproduction, the menstrual cycle, artificial control of fertility and infertility treatments. Later moving onto B16 – Adaptations, interdependence and competition.	Completing C2-The Periodic Table, and then moving on to C4- Chemical Calculations, including Mr, moles and reacting masses calculations	P4 – Electric Circuits: Describing how we measure current and potential difference, building simple and parallel circuits, circuit symbols. Moving on to P5 – Electricity in the Home: Describing the National Grid, AC and DC, calculating power and efficiency, wiring a plug.	All lessons are live and any work set by the class teacher will be set through Microsoft teams
10E2	B9 – Respiration: Aerobic respiration, response to exercise, anaerobic respirations, metabolism. Later: B10 Human Nervous system	C5 – Chemical Changes: Formulae of salts, neutralisation, pH scale, strong and weak acids Later to begin C2 – Periodic Table: Group 1 and Group 7	P5 – Electric Circuits: Understanding potential difference, current and resistance, I-V graphs	All lessons are live and any work set by the class teacher will be set through Microsoft teams
10E3	B9 – Respiration: Aerobic respiration, response to exercise, anaerobic respirations, metabolism. Later: B10 Human Nervous system	C5 – Chemical Changes: Formulae of salts, neutralisation, pH scale, strong and weak acids Later to begin C2 – Periodic Table: Group 1 and Group 7	P4 – Electric Circuits: Describing how we measure current and potential difference, building simple and parallel circuits, circuit symbols. Moving on to P5 – Electricity in the Home: Describing the National Grid, AC and DC, calculating power and efficiency, wiring a plug.	All lessons are live and any work set by the class teacher will be set through Microsoft teams
10E4	B11 – Hormonal Control: Principles of hormonal control, controlling blood glucose, the role of negative feedback, human reproduction, the menstrual	C5 – Making salts, neutralisation and the pH scale. Later to begin C2 The periodic table, to learn about the electronic structures of	P13 - finishing off our exploration of the electromagnetic spectrum and spending more time looking specifically at the uses and	All lessons are live and any work set by the class teacher will be set through Microsoft teams

	cycle, artificial control of fertility and infertility treatments.	elements in different groups of the periodic table	applications of the different waves P4 – Electric Circuits: Describing how we measure current and potential difference, building simple and parallel circuits, circuit symbols.	
10E5	B11 – Hormonal Control: Principles of hormonal control, controlling blood glucose, human reproduction, the menstrual cycle and artificial control of fertility. Later moving onto B16 – Adaptations, interdependence and competition.	C2 (The Periodic Table) – History of the Periodic Table, Organisation of the Periodic Table, Groups 0, 1 and 7, Patterns in the Periodic Table	Completion of P12 – Wave properties, looking at the nature, properties and uses of waves in addition to reflection and refraction and sound waves. P13 – Electromagnetic spectrum, looking at applications of different waves,	All lessons are live and any work set by the class teacher will be set through Microsoft teams
10A+1	B11 – Hormonal Control: Principles of hormonal control, controlling blood glucose, human reproduction, the menstrual cycle and artificial control of fertility. Later moving onto B16 – Adaptations, interdependence and competition.	C5 – Chemical Changes: Making Salts. pH Scale and neutralisation. Later to begin: C2 – Periodic Table: Group 1 and Group 7	P4 – Electric Circuits: Describing how we measure current and potential difference, building simple and parallel circuits, circuit symbols. Moving on to P5 – Electricity in the Home: Describing the National Grid, AC and DC, calculating power and efficiency, wiring a plug.	All lessons are live and any work set by the class teacher will be set through Microsoft teams
10A+2	B11 – Hormonal Control: Principles of hormonal control, controlling blood glucose, human reproduction, the menstrual cycle and artificial control of fertility.	Completing C2 – Periodic Table, then moving to C4-Calculations: including concentration and Mr calculations	P13 – Electromagnetic spectrum, looking at applications of different waves, and may complete and start P4 Electric circuits	All lessons are live and any work set by the class teacher will be set through Microsoft teams

	Later moving onto B16 – Adaptations, interdependence and competition.			
10A+3	B9 – Completion of this topic by looking at metabolism and the liver. Later moving onto B10 where students will study the reflex action.	C5 – Chemical Changes: Making Salts. pH Scale and neutralisation. Later to begin: C2 – Periodic Table: Group 1 and Group 7	P4 – Electric Circuits: Describing how we measure current and potential difference, building simple and parallel circuits, circuit symbols. Moving on to P5 – Electricity in the Home: Describing the National Grid, AC and DC, calculating power and efficiency, wiring a plug.	All lessons are live and any work set by the class teacher will be set through Microsoft teams
10A+4	LR1- Beginning B16 unit: Communities, organisms and their environment, competition, adaptations. SC1 – Continuing with Topic B13 Reproduction covering DNA and the Genome, Inheritance of sex and characteristics, inherited disorders and screening for inherited disorders.	None	None	All lessons are live and any work set by the class teacher will be set through Microsoft teams