

Home learning menu – Year 11

All lessons are live on teams. If you cannot access teams for some reason here is some useful information so you can continue your learning until you can access teams again.

Class	Biology	Chemistry	Physics	Activities, links and instructions
11 Seps 1 (11EB/Sep)	Transport in cells – looking at the similarities and differences of Osmosis, Diffusion and Active Transport.	Revision of predominantly paper 2 topics in preparation for the mock exams. Including C14 (atmosphere), C8 (rates) and C9 (crude oil)	No Physics will be delivered for the first few weeks back in college as all staff will be delivered Biology and Chemistry curriculum, to make up for disturbances during lockdowns. Later students will begin their revision towards Paper 1 topics.	All lessons are live and any work set by the class teacher will be set through Microsoft teams
11 Seps 2 (11EC/Sep)	Transport in Cells- looking at the similarities and differences of Osmosis , Active Transport and Diffusion	C12 – Completion of test for ions and instrumental analysis C11 – Polymers. Addition and condensation polymerisation along with researching natural polymers and looking at DNA	No Physics will be delivered for the first few weeks back in college as all staff will be delivered Biology and Chemistry curriculum, to make up for disturbances during lockdowns. Later students will begin their revision towards Paper 1 topics.	All lessons are live and any work set by the class teacher will be set through Microsoft teams
11E1	Completion of B1 looking at microscopy calculations. Moving on to Revision topics including: Reflexes; Environmental change; Homeostasis; Sampling using	C9 – Crude Oil: cracking and combustion. Moving on to C12 – Chemical Analysis: purity and formulations, testing for gases, chromatography; then C14 – Earth’s Resources: finite and renewable, potable water, extracting metals, LCAs	No Physics will be delivered for the first few weeks back in college as all staff will be delivered Biology and Chemistry curriculum, to make up for disturbances during lockdowns. Later students will begin their revision towards Paper 1 topics.	All lessons are live and any work set by the class teacher will be set through Microsoft teams

	Quadrats; Cell division; Tropisms; Interdependence; Variation and Classification			
11E2	B2 – Cell division: Cell division, Growth and differentiation, Stem cells.	Dr Hill: C14 – Earth’s Resources: finite and renewable, potable water, extracting metals, LCAs	No Physics will be delivered for the first few weeks back in college as all staff will be delivered Biology and Chemistry curriculum, to make up for disturbances during lockdowns. Later students will begin their revision towards Paper 1 topics.	All lessons are live and any work set by the class teacher will be set through Microsoft teams
11E3	B2 – Cell division: Cell division, Growth and differentiation, Stem cells. Later: Revision of all units Miss Jain: Finsih B1 (Osmosis required practical, active transport and exchanging materials)	C9 – Crude Oil: cracking and combustion. Moving on to C12 – Chemical Analysis: purity and formulations, testing for gases, chromatography; then C14 – Earth’s Resources: finite and renewable, potable water, extracting metals, LCAs	No Physics will be delivered for the first few weeks back in college as all staff will be delivered Biology and Chemistry curriculum, to make up for disturbances during lockdowns. Later students will begin their revision towards Paper 1 topics.	All lessons are live and any work set by the class teacher will be set through Microsoft teams
11E4	Continue our revision of communicable and non-communicable diseases. We will then move onto bioenergetics and revision key topics on photosynthesis and respiration.	C9 – Crude oil, structure of alkanes, fractional distillation and combustion. Moving on to C12 – Chemical Analysis: purity and formulations, testing for gases, chromatography; then C14 – Earth’s Resources: finite and renewable, potable water, extracting metals, LCAs	Recap of all Physics units – initially focusing on Paper 2 topics (forces, waves, magnetism and electromagnetism) in preparation for mock exams.	All lessons are live and any work set by the class teacher will be set through Microsoft teams

11E5	<p>B2 – Cell division: Cell division, Growth and differentiation, Stem cells.</p> <p>Later: Revision of all units</p>	<p>With Miss Dyer – Continuing to study the Earth's atmosphere and the greenhouse effect, how this affects climate change and steps that can be taken to reduce it.</p> <p>With Mr Hesketh – completion of C8 – factors affecting the rate of reaction then C12 – Chemical analysis: using chromatography, testing for gases, testing for +ive and -ive ions and instrumental analysis</p>	<p>Revision materials have been provided on Educake for students to review knowledge</p>	<p>All lessons are live and any work set by the class teacher will be set through Microsoft teams</p>
11A+1	<p>Dr Hill – Organising an Ecosystem (Food chains, material cycling, carbon cycle, water cycle).</p>	<p>With Miss Dyer – Moving onto student electrolysis including the process and how it can be used in the extraction of metals.</p> <p>With Mrs Davies – We will continue to learn about covalent bonding, then metallic bonding. Then later we will move onto the energy changes topic.</p>	<p>Dr Hill - Students will revise their topics learned in Year 9, starting with Paper 2 topics with Dr Hill.</p>	<p>All lessons are live and any work set by the class teacher will be set through Microsoft teams</p>
11A+2	<p>Completed the Biology units. Students will be guided with the revision later, though at the moment our focus is on Chemistry.</p>	<p>With Miss Marwick – Continuing to study the structure and bonding of matter, including how atoms bond together through ionic, covalent and metallic bonding and the properties of these substances</p> <p>With Mr Bennett C6 – Electrolysis including the process and how it can be used in the extraction of metals</p>	<p>Mr Coulson – Revision of Paper 2 Topics including: Forces; Waves; Magnetism and electromagnetism.</p>	<p>All lessons are live and any work set by the class teacher will be set through Microsoft teams</p>

11A+3	Dr Hill – Organising an Ecosystem (Food chains, material cycling, carbon cycle, water cycle). Moving on to Physics Paper 2 Revision (Magnetism, EM Spectrum, Waves, speed).	With Mrs Kirk – C5 – Chemical changes: acids, alkalis, neutralisation, the pH scale and making salts. Moving on to C6 – Electrolysis including the process and how it can be used in the extraction of metals LR1 – C3 Structure and bonding: Giant covalent structures, fullerenes and graphene, Bonding in metals, Alloys. Moving on to C8 – Rates and Equilibrium.	Students will revise their topics learned in Year 9	All lessons are live and any work set by the class teacher will be set through Microsoft teams
11A+4	With Miss Dyer and Miss Jain – continue to study B18 looking at the transfer of biomass and food production.	None – not studying this course	None – not studying this course	All lessons are live and any work set by the class teacher will be set through Microsoft teams