



## GEMS Winchester School Dubai



# Curriculum Overviews

## Year 13

### Overview and Contents

Our Key Stage 5 curriculum is imaginatively designed to provide a wealth of opportunities where students can take intelligent risks, ask questions to satisfy their intellectual curiosity and explore ideas to deepen their understanding; while promoting critical thinking skills. After students have finished their iGCSEs they have the opportunity to specialise more in their studies. They will study fewer subjects, but in much greater depth, preparing them for further study at university or success in employment. In Years 12 and 13, students can study either A-Levels or BTEC.

This guide has been produced to support Year 13 families understand what will be taught in each of the subjects that students will study in Year 13. Please click on the links below to take you through to a page for each subject that gives a short overview of the curriculum in that area of the school.

Subject	Link	Subject	Link
English Literature	<a href="#">Click here</a>	Business Studies	<a href="#">Click here</a>
Maths	<a href="#">Click here</a>	BTEC Business Studies	<a href="#">Click here</a>
Biology	<a href="#">Click here</a>	Travel & Tourism	<a href="#">Click here</a>
Chemistry	<a href="#">Click here</a>	Global Perspectives	<a href="#">Click here</a>
Physics	<a href="#">Click here</a>	ICT	<a href="#">Click here</a>
Islamic A	<a href="#">Click here</a>	Computer Science	<a href="#">Click here</a>
Islamic B	<a href="#">Click here</a>	BTEC ICT	<a href="#">Click here</a>
Economics	<a href="#">Click here</a>	French	<a href="#">Click here</a>

## English Literature Curriculum Overview

Term	Topics to be Studied
<b>Autumn Term 1a</b>	<ul style="list-style-type: none"> <li>Unit 3: Elements of Crime and Mystery: A crime novel and Robert Browning Selected Poems: meanings conveyed, significance of context, authorial methods, different interpretations, coherent response writing that are informed, personal and perceptively argued.</li> <li>Paper 4: NEA (Non-examined Assessment): Students study a novel of their choosing, create an assignment and write a 1500-word essay on their selected focus. Students are assessed on their ability to: convey their understanding of the poem; analyse and evaluate authorial method, referring to examples to support ideas; build an argument that conveys where the poem sits in a number of contexts and interpretations.</li> </ul>
<b>Autumn Term 1b</b>	<ul style="list-style-type: none"> <li>Unit 3: Elements of Crime and Mystery: A crime novel and Robert Browning Selected Poems: meanings conveyed, significance of context, authorial methods, different interpretations, coherent response writing that are informed, personal and perceptively argued.</li> <li>Paper 4: NEA (Non-examined Assessment): Students study a novel of their choosing, create an assignment and write a 1500-word essay on their selected focus. Students are assessed on their ability to: convey their understanding of the poem; analyse and evaluate authorial method, referring to examples to support ideas; build an argument that conveys where the poem sits in a number of contexts and interpretations.</li> </ul>
<b>Spring Term 2a</b>	<ul style="list-style-type: none"> <li>Exam Techniques for Unit 3</li> <li>Paper 4: NEA (Non-examined Assessment): Students study a range of poetry by one poet of their choosing, create an assignment and write a 1500-word essay on their selected focus. Students are assessed on their ability to: convey their understanding of the poem; analyse and evaluate authorial method, referring to examples to support ideas; build an argument that conveys where the poem sits in a number of contexts and interpretations.</li> </ul>
<b>Spring Term 2b</b>	<ul style="list-style-type: none"> <li>Exam Techniques for Unit 3</li> <li>Paper 4: NEA (Non-examined Assessment): Students study a range of poetry by one poet of their choosing, create an assignment and write a 1500-word essay on their selected focus. Students are assessed on their ability to: convey their understanding of the poem; analyse and evaluate authorial method, referring to examples to support ideas; build an argument that conveys where the poem sits in a number of contexts and interpretations.</li> </ul>

### Useful Resources/Websites

[When Will There Be Good News?, by Kate Atkinson | The Independent | The Independent](#)  
[When Will There Be Good News? Study Guide | Literature Guide | LitCharts](#)  
[Browning's My Last Duchess.pdf \(srgm.org.in\)](#)  
[\(4\) Robert Browning 'My Last Duchess' | Rusali Mohanty - Academia.edu](#)  
[Microsoft Word - Porphyria's Lover - A Critical Appreciation \(mmdcollege.in\)](#)

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## Maths Curriculum Overview

Term	Topics to be Studied
<b>Autumn Term 1a</b>	<p>In term 1a, students will study the following units from Pure 2:</p> <ul style="list-style-type: none"> <li>• Functions</li> <li>• Binomial Expansion</li> <li>• Trigonometry</li> </ul>
<b>Autumn Term 1b</b>	<p>. In term 1b, students will study the following units from Pure 2:</p> <ul style="list-style-type: none"> <li>• Exponentials and Logarithms</li> <li>• Differentiation</li> <li>• Integration</li> <li>• Differential Equations</li> </ul>
<b>Spring Term 2a</b>	<p>In term 2a, Students will study the following units from Pure 2:</p> <ul style="list-style-type: none"> <li>• Numerical Methods</li> <li>• Vectors</li> </ul> <p>They will then either study the following units from Statistics 2:</p> <ul style="list-style-type: none"> <li>• Poisson Distribution</li> <li>• Continuous Random Variables</li> <li>• The exponential distribution</li> </ul> <p>Or they will study the following units from Mechanics 2:</p> <ul style="list-style-type: none"> <li>• Modelling and Kinematics</li> <li>• Forces in equilibrium</li> <li>• Centre of Mass</li> </ul>
<b>Spring Term 2b</b>	<p>Students choosing to study Statistics 2 will study:</p> <ul style="list-style-type: none"> <li>• The Normal Distribution</li> <li>• Estimation</li> <li>• Hypothesis Testing</li> </ul> <p>Students choosing to study Mechanics 2 will study:</p> <ul style="list-style-type: none"> <li>• Motion in one, two and three dimensions</li> <li>• Work, Power and Energy</li> <li>• Uniform Circular Motion</li> </ul>

### Useful Resources/Websites

<https://www.mathsgenie.co.uk/>

<https://www.physicsandmathstutor.com/maths-revision/a-level-edexcel/>

<https://mathsaurus.com/as-and-year-1-a-level-maths-exam-questions-by-topic/>

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Term	Topics to be Studied
Autumn Term 1a	<p><b>Population and genes:</b> In this lesson, we will explain why no two species have the same niche and analyse and interpret data on the number and distribution of organisms and identify correlations and causal relationships.</p> <p><b>Photosynthesis:</b> In this lesson, we will explain how electrons excited by light move along the electron transfer chain and how ATP and reduced NADP are produced. They interpret experimental data on the light-independent reaction and can correctly interpret the results of the statistics test in terms of probability and chance.</p>
Autumn Term 1b	<p><b>Respiration:</b> In this lesson we will explain the main reactions which occur during glycolysis and are able to suggest appropriate explanations of RQs in terms of carbohydrate, lipid or protein as a respiratory substrate.</p> <p><b>Energy and human Food production:</b> In this lesson we will explain the concept of net production in consumers, linked to energy losses along food chains and describe the stages of the carbon cycle and nutrient cycle.</p>
Spring Term 2a	<p><b>Inheritance:</b> In this lesson we will explain the basis for dominance and co-dominance of alleles. apply knowledge to calculate the predicted ratios of genotypes and phenotype of offspring when supplied with appropriate information. Interpret chi-squared tests in terms of probability and chance.</p> <p><b>Hardy Weinberg Equation:</b> In this lesson we will describe and explain the mathematical equations used to express allele and genotype frequencies.</p> <p><b>Evolution led to speciation:</b> In this topic we will explain how natural selection and isolation may result in a change in the allele and phenotype frequency and lead to the formation of a new species by allopatric speciation and sympatric speciation.</p>
Spring Term 2b	<p><b>Unit 4: Control</b> In this topic we will explain the role of sensory, intermediate and motor neurones in a reflex arc and students will also be able to explain the events in generating an action potential.</p> <p><b>Skeletal muscle as effectors:</b> In this topic we will explain roles of actin, myosin, calcium ions, ATP and tropomyosin in the cycle of actomyosin bridge formation and myofibril contraction.</p>

### Useful Resources/Websites

<https://senecalearning.com/en-GB/>  
<http://www.physicsandmathstutor.com/>  
<https://www.khanacademy.org/>  
<https://www.znotes.org/>  
<https://www.savemyexams.co.uk/a-level/biology/cie/22/revision-notes/>  
<https://www.freesciencelessons.co.uk/>

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Term	Topics to be Studied
<b>Autumn Term 1a</b>	<p><b>Periodicity</b> In this unit, we will be learning about trends in the rows and periods of elements</p> <p><b>Properties of Period 3 elements and their oxides and chlorides</b> In this unit, we will be learning about The trends in the reactions of the elements Na, Mg, Al, Si, P and S with oxygen, water, chlorine, limited to the formation of Na<sub>2</sub>O, MgO, Al<sub>2</sub>O<sub>3</sub>, SiO<sub>2</sub>, P<sub>4</sub>O<sub>10</sub>, SO<sub>2</sub> and SO<sub>3</sub></p> <p><b>General properties of transition metals</b> In this unit, we will be learning about The properties of these elements are studied in this section with opportunities for a wide range of practical investigations.</p> <p><b>Substitution reactions</b> In this unit, we will be learning about The ligands, Exchange of the ligands, chelate effect, in terms of the balance between the entropy and enthalpy change in these reactions.</p> <p><b>Thermodynamics</b> In this unit, we will be learning about lattice enthalpy, construct Born–Haber cycles to calculate lattice enthalpies using these enthalpy changes, construct Born–Haber cycles to calculate one of the other enthalpy changes, compare lattice enthalpies from Born–Haber cycles with those from calculations based on a perfect ionic model to provide evidence for covalent character in ionic compounds</p>
<b>Autumn Term 1b</b>	<p><b>Electrode potentials and electrochemical cells</b> In this unit, we will be learning about use E<sub>0</sub> values to predict the direction of simple redox reactions, calculate EMF of cell.</p> <p><b>Acids and bases</b> In this unit, we will be learning about explain qualitatively the action of acidic and basic buffers, calculate the pH of acidic buffer solutions.</p>
<b>Spring Term 2a</b>	<p><b>Rate equations</b> In this unit, we will be learning about perform calculations using the rate equation, perform calculations using the equation <math>k = Ae^{-E_a/RT}</math></p> <p><b>Equilibrium constant K<sub>p</sub> for Homogeneous systems</b> In this unit, we will be learning about construct an expression for K<sub>p</sub> for a homogeneous system in equilibrium, predict the qualitative effects of changes in temperature on the value of K<sub>p</sub>.</p>
<b>Spring Term 2b</b>	<p><b>Organic Chemistry</b> In this unit, we will be learning about some of the analytical techniques used by chemists, including Optical isomerism, Chemical tests to distinguish carbonyl group, amines, test-tube reactions and spectroscopic techniques.</p>

## Useful Resources/Websites

<https://senecalearning.com/en-GB/>  
<http://www.physicsandmathstutor.com/>  
<https://www.khanacademy.org/>  
<https://www.znotes.org/>  
<https://www.savemyexams.co.uk/a-level/chemistry/cie/22/>  
<https://www.freesciencelessons.co.uk/>

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## Physics Curriculum Overview

Term	Topics to be Studied
<b>Autumn Term 1a</b>	<b>Periodic motion</b> In this unit, we will be learning about the characteristics of periodic motion that include circular motion and simple harmonic motion. We will analyse the motion in contexts such as a mass whirled on a string, car rounding a bend, simple pendulum, and mass-spring system. <b>Gravitational fields and Satellites</b> In this unit, we will be learning the Newton's gravitational law, nature of gravitational field, and its strength. We will extend our understanding of the circular motion to analyse the planetary motion.
<b>Autumn Term 1b</b>	<b>Electric fields</b> In this unit, we will be learning the Coulomb's law, the nature of the electric field, and its strength. We will apply projectile motion to understand the trajectory of moving charged particles in the electric field. <b>Capacitance</b> In this unit, we will be investigating the charging and discharging of capacitors. We will also be learning the exponential radioactive decay to determine the age of rocks, trees, and minerals.
<b>Spring Term 2a</b>	<b>Magnetic field</b> In this unit, we will be learning the nature of the magnetic field, magnetic flux, and flux linkage. We will determine magnetic flux linkage in common contexts such as a conductor dropped in a uniform magnetic field or a rectangular coil in an electric motor. <b>Electromagnetism</b> In this unit, we will be learning Faraday's and Lenz's Laws. We will also be learning about sinusoidal voltages and currents; root mean square, peak, and peak-to-peak values for sinusoidal waveforms. We will be discussing the causes of inefficiencies in a transformer.
<b>Spring Term 2b</b>	<b>Thermal Physics</b> In this unit, we will be discussing the first law of thermodynamics and its application in fire pistons, bicycle pumps, and other examples. We will be using U-value data to calculate energy losses. We will apply gas laws to establish the relationships between $p$ , $V$ , $T$ , and the mass of the gas. We will extend the understanding of Brownian motion and kinetic theory to explain gaseous behavioural changes over time.

### Useful Resources/Websites

<https://senecalearning.com/en-GB/>  
<http://www.physicsandmathstutor.com/>  
<https://www.khanacademy.org/>  
<https://www.znotes.org/>  
<https://www.savemyexams.co.uk/a-level/physics/cie/22/revision-notes/>  
<https://www.freesciencelessons.co.uk/>

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Term	Topics to be Studied
Autumn Term 1a	<p><b>القراءة</b></p> <p>تعلم الطلاب خلال هذه الوحدة عن تحليل النصوص الأدبية، وتحديد أفكار الكاتب في النص، ذاكرًا رأيه فيها مع الاستدلال على رأيه بأدلة مقنعة، ويظهر ذلك من خلال النص الأدبي (<b>على قدر أهل العزم</b>) من خلال تحليل أفكار النص وعاطفة الشاعر وأسلوبه في عرض الفكرة، ثم الانتقال للقصة القصيرة (<b>نظرة خارج النافذة</b>) وتحليل العناصر الفنية لها، موضحةً آراء الشخصيات واتجاهات كل شخصية وتأثيرها في سير أحداث القصة، وتعلم الطلاب أيضًا خصائص النصوص المعلوماتية، وتصنيف غرض النص حسب الموضوع والمعلومات المقدمة إلى (<b>نص معلومات غرضه التثقيف أو نص معلوماتي غرضه الإقناع والتأثير</b>) والتطبيق من خلال دراسة النص المعلوماتي (<b>حقيقة الأشياء</b>)، وبالنسبة للغة فقد تعلم الطلاب (<b>الكتابة</b>) وأوزانها وأفعالها ودلالاتها وكيفية توظيفها في التطبيق الكتابي</p> <p><b>الكتابة</b></p> <p>التطبيق الكتابي على النصوص الأدبية والسردية التي تعلمها الطلاب من خلال كتابة استجابات الطلاب حول النصوص الأدبية، وكتابة نصوص سردية ووصفية تناقش نفس الفكرة أو أفكار مشابهة</p>
Autumn Term 1b	<p><b>القراءة</b></p> <p>سيتعلم الطلاب خلال هذه الوحدة استكمال تحليل النصوص الأدبية، ونقد الآراء ووجهات النظر المقدمة حول الموضوعات، وتحديد أفكار الكاتب في النص، ذاكرًا رأيه فيها مع الاستدلال على رأيه بأدلة مقنعة، ويظهر ذلك من خلال النص الأدبي (<b>أرق على أرق</b>) من خلال تحليل أفكار النص وعاطفة الشاعر وأسلوبه في عرض الفكرة وسرد القيم والدروس المستفادة من النص في خرائط مفاهيمية متنوعة، ثم الانتقال للقصة القصيرة (<b>علامة تعجب</b>) وتحليل العناصر الفنية لها، موضحةً آراء الشخصيات واتجاهات كل شخصية وتأثيرها في سير أحداث القصة</p> <p><b>الكتابة</b></p> <p>ستعلم الطلاب حول <b>نصوص إقناعية</b> تحمل آراء خاصة ووجهات نظر مختلفة مع دعم الكتابات بأدلة مقنعة ومتنوعة يتعلمها الطلاب</p>
Spring Term 2a	<p><b>القراءة</b></p> <p>سيتعلم الطلاب خلال هذه الوحدة مهارات النقد وتحليل النصوص الأدبية، ونقد الآراء ووجهات النظر المقدمة حول الموضوعات، وتحديد أفكار الكاتب في النص، ذاكرًا رأيه فيها مع الاستدلال على رأيه بأدلة مقنعة، ويكون من خلال نصوص الرأي والمقالات والأعمدة الصحفية (<b>أي الناس أسعد</b>)، والمحادثة (<b>شعر العصر العباسي</b>) من خلال تحليل أفكار النص وهدف الكاتب وأسلوبه في عرض الفكرة وسرد القيم والدروس المستفادة من النص في خرائط مفاهيمية متنوعة، ثم الانتقال للقصة القصيرة (<b>رأيت النخيل</b>) وتحليل العناصر الفنية لها، موضحةً آراء الشخصيات واتجاهات كل شخصية وتأثيرها في سير أحداث القصة</p> <p><b>الكتابة</b></p> <p>ستعلم الطلاب حول كتابة <b>النص الإقناعي</b> ويطبق على أفكار وقضايا اجتماعية وسياسية مختلفة تحمل آراء خاصة ووجهات نظر مختلفة مع دعم الكتابات بأدلة مقنعة ومتنوعة يتعلمها الطلاب</p>
Spring Term 2b	<p><b>القراءة</b></p> <p>تعلم الطلاب خلال هذه الوحدة عن مهارات النقد وتحليل النصوص الأدبية وآراء مختلفة حول أفكار النصوص، وتحديد أفكار الكاتب في النص، ذاكرًا رأيه فيها مع الاستدلال على رأيه بأدلة مقنعة، ويظهر ذلك من خلال النص الأدبي (<b>شعر المتنبي</b>) من خلال تحليل أفكار النص وعاطفة الشاعر وأسلوبه في عرض الفكرة، ثم الانتقال للقصة القصيرة (<b>ما لن يأتي عبر النافذة</b>) وتحليل العناصر الفنية لها، موضحةً آراء الشخصيات واتجاهات كل شخصية وتأثيرها في سير أحداث القصة، وتعلم الطلاب أيضًا خصائص النصوص المعلوماتية، وتصنيف غرض النص حسب الموضوع والمعلومات المقدمة إلى (<b>نص معلومات غرضه التثقيف أو نص معلوماتي غرضه الإقناع والتأثير</b>) والتطبيق من خلال دراسة النص (<b>الفطريات</b>)، وبالنسبة للغة فقد تعلم الطلاب (<b>التصوير البلاغي</b>) وأنواعها وتركيبها ودلالاتها، وكيفية توظيفه في التطبيق الكتابي، وسيتعلمون أيضًا حول تلخيص النصوص الأدبية</p> <p><b>الكتابة</b></p> <p>التطبيق الكتابي على النصوص الأدبية والسردية والإقناعية التي تعلمها الطلاب من خلال كتابة استجابات الطلاب حول النصوص الأدبية، وكتابة نصوص سردية ووصفية تناقش نفس الفكرة أو أفكار مشابهة</p>

Useful Resources/Websites

- <https://www.uae-study.com/2020/07/Solving-Arabic-book-grade-12.html>  
<https://drive.google.com/file/d/0B2ydiQ1GyyvntFRyUjdBb1pVLtQ/view?resourcekey=0-tQerEao0ijd3493hVKpoKQ>  
<https://www.doraluloom.com/public/files/57026171.pdf>  
<http://etheses.iainkediri.ac.id/1029/3/932502411-BAB%20II.pdf>

Term	Topics to be Studied
Autumn Term 1a	الوحدة الأولى في هذه الوحدة سيتعلم الطالب عن طرق وقاية المجتمع من الجرائم الأخلاقية ومناهج المفسرين في تفسير القرآن الكريم ورأي الإسلام في التطرف وكيفية حدوث الفراق بين الزوجين ورسول الله صلى الله عليه وسلم وحياته الاجتماعية
Autumn Term 1b	:الوحدة الثانية يدرس الطالب حديث الإفك ثم بعض السنن الربانية والمسؤولية في الإسلام ثم نتعلم عن مقاصد التشريع الخمسة وسيرة السيدة فاطمة بنت مبارك
Spring Term 2a	الوحدة الثالثة سوف نتعلم في هذه الوحدة عن التواصل الاجتماعي سلوك وآداب والمنهج النبوي في الرعاية الصحية ثم بعض أنواع البيوع المحرمة وكذلك الخدمة الوطنية واجب شرعي ومطلب وطني
Spring Term 2b	(الوحدة الرابعة): (وفوق كل ذي علم عليم) سوف ندرس في هذه الوحدة الزواج طريق الاستعفاف والتفكير الإبداعي في الإسلام وفقه ترتيب الأعمال بحسب مقاصدها ومعنى العولمة

Useful Resources/Websites

<http://www.al-eman.com/index.htm>  
<https://www.dorar.net/>  
<https://www.awqaf.gov.ae/ar/Pages/default.aspx>  
<https://www.albayan.co.uk/MGZarticle2.aspx?ID=6534>  
<https://sunnah.com/>  
<https://www.awqaf.gov.ae/ar/Pages/default.aspx>

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## Islamic B Curriculum Overview

Term	Topics to be Studied
<b>Autumn Term 1a</b>	In this unit, we will be learning about Protecting Society Against Moral Crimes: Surah An-Noor, then we shall study Methods of Qur’anic Exegesis. We will also learn about Extremism, as well as Marital Dissolution Separation from Spouses, and Allah’s Messenger and Social Life.
<b>Autumn Term 1b</b>	In this unit, we will be learning about The Slander Against ‘A’ishah (R.A) – Ifk, then we shall study Divine Laws – Sunan Rabbaniyyah. We will also learn about Responsibility in Islam, as well as The Five Purposes of Islamic Legislation, and Sheikha Fatima Bint Mubarak.
<b>Spring Term 2a</b>	In this unit, we will be learning about Social Media/Interaction: Good Conduct and Manners, then we shall study Prophetic Methodology in HealthCare. We will also learn about Prohibited Sales, as well as National Service is a Shariah Duty and a National Requirement.
<b>Spring Term 2b</b>	In this unit, we will be learning about Marriage is a Path to Chastity: Surah An-Noor 32-34), then we shall study Creative Thinking in Islam. We will also learn about Fiqh: Understanding of Priorities on the Basis of Their Purposes, as well as Globalization.

### Useful Resources/Websites

- [Al Qur’an: Text & Translations in English and many other languages](#)
- [Learn TAJWEED, Recite BETTER](#)
- [MemoRiZation – Hifdhul Qur’an](#)
- [Qur’an and Science](#)
- [Qur’an DICTIONARIES](#)
- [Qur’an Mus’haf/Images](#)
- [Qur’an RECITATIONS – AUDIO Downloads!](#)
- [Tafseer, Learning the Qur’an in detail](#)
- <https://sunnah.com/>
- [All Hadeeth Books](#)
- [An ode to the Prophet صلى الله عليه وسلم by Mr.MuQeet](#)
- [Prophet’s Farewell Address](#)
- [Prophetic Timeline: Superb Website!](#)
- [Sunnah for Everyday Living](#)
- [Sunnah.com – Great Resource Online](#)
- [Adhaan, Prayer Call](#)
- [Arabic Resources](#)

- [AUDIO-VIDEO](#)
- [Calligraphy](#)
- [Dictionaries and More](#)
- [Discover Islam for Non-Muslims](#)
- [Especially Girls' Special](#)
- [How To Perform 'UMRAH](#)
- [Kids to Primary level students](#)
- [Library](#)
- [Presentations](#)
- [Useful Links](#)
- [Zikraa](#)
- [1001 Inventions and Muslim Heritage](#)
- [Discover the Golden Age of Muslim Civilisation](#)
- [Documentary Section](#)
- [What is Taught and What Should be Taught!!!](#)

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Term	Topics to be Studied
<b>Autumn Term 1a</b>	<p><b>Unit of Study: Business Behaviour - Types and Size of Business; Revenue, Costs, Profits; Market Structures and Contestability</b></p> <p>This unit examines how pricing and the nature of competition between firms is affected by the number and size of market participants. At the end of this unit, students should be able to analyse and evaluate the pricing and output decisions of firms in different contexts, and understand the role of competition in business decision making. They should also be capable of making an appraisal of government intervention aimed at promoting competitive markets. Students will need to be able to apply relevant quantitative skills to the content covered introduced in this unit, including calculations, the use of data and the drawing of diagrams.</p>
<b>Autumn Term 1b</b>	<p><b>Unit of Study: Business Behaviour - Labour Markets, Government Intervention</b></p> <p>This unit examines the factors affecting demand and supply of labour. During their course of study, the students gain insight on Wage determination in Competitive and Non-competitive Market. The students will also apply relevant quantitative skills to the content covered introduced in this unit, including calculations, the use of data and the drawing of diagrams.</p>
<b>Spring Term 2a</b>	<p><b>Unit 4: Developments in the global economy; Balance of Payments, exchange rates and international competitiveness.</b></p> <p>This unit develops the application, analysis and evaluation of economic models as well the ability to assess policies that might be used to deal with economic problems. An awareness of trends and developments in the global economy over the last 40 years, including contemporary issues will also be developed. Wider reading and research will enable students to use up-to-date and relevant examples in their analysis and evaluation of issues and developments in the global economy. Students will learn to apply relevant quantitative skills to the content covered in this unit, including calculations, the use of data and the drawing of diagrams.</p>
<b>Spring Term 2b</b>	<p><b>Unit 4: Developments in the global economy; The role of the state in the Macroeconomy; Growth and development in developing, emerging and developed countries</b></p> <p>Students will learn about role of government spending as a proportion of a country's GDP. The significance of public expenditure will also be explored during the course of study.</p> <p>The students will also be exploring the varying levels of income between different countries. They will also examine how different countries promote growth and development.</p>

### Useful Resources/Websites

<https://qualifications.pearson.com/en/qualifications/edexcel-international-advanced-levels/economics-2018.html>

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Term	Topics to be Studied
<p><b>Autumn Term 1a</b></p>	<p><b>Unit of Study: Mission, Objectives and Strategy</b>  <b>Mission, Objectives and Strategy</b>                      This section looks at the goals and aims of corporations and the way that they might present strategy in mission statements. The focus is to create a link between mission, objectives, strategy and the business functions. The section also considers the way a corporation might assess the strengths, weaknesses, opportunities and threats that it faces. Finally, it will investigate the need to consider stakeholder needs when making decisions.</p> <p><b>Unit of Study: The Financial performance of a Business</b>                      Businesses may wish to assess their competitiveness using financial information. This section looks at how key information in the statement of comprehensive income and the statement of financial position can be used to assess competitiveness and stakeholder interest. It explores the use of financial ratios when assessing competitiveness. This includes how such ratios can be used to make business decisions and the limitations of their use.</p>
<p><b>Autumn Term 1b</b></p>	<p><b>Unit of Study: Analysing the industry Environment</b>                      This section addresses how external factors might impact businesses. The external factor being discussed in this section is competition and the effect that large numbers of competitors and very large organizations have on businesses. There is discussion of barriers of entry and how businesses need to gauge level of competition and power held by customers and suppliers. Porter's Five forces model is a tool often used.</p> <p><b>Unit of Study: Analysing the External environment to assess opportunities and threats: Political and Legal Change</b>                      This section addresses how external factors might impact businesses. A group of external factors is legislation, such as consumer protection, environmental protection, health and safety legislation, such as consumer protection, environmental protection, health and safety legislation, and competition policy.</p>
<p><b>Spring Term 2a</b></p>	<p><b>Unit of Study: Analysing the external environment to assess opportunities and threats: economic change</b>                      This section considers external economic environment and its impact of Business decision making. Students are made aware that external environments can differ between countries and that in a global economy changes in one country can affect businesses in another.</p> <p><b>Unit of Study: Analysing the external environment to assess opportunities and threats: social, technological and environmental change</b>                      This section will investigate the impact of external influences on businesses such as political, economic, social, technological, legal and environmental factors.</p> <p><b>Unit of Study: Investment Appraisal</b>                      Business owners, managers and other employees make lots of decisions while carrying out their duties. This section looks at a range of investment appraisal methods. The factors that influence investment decisions are discussed. Finally, the section looks at how to calculate investment appraisal and comparing results to help decide which investment is feasible to continue with.</p>
<p><b>Spring Term 2b</b></p>	<p><b>Unit of Study: Choosing which markets to compete in and what products to offer</b>                      This section looks at how businesses might adjust their marketing practices when selling goods and services in global markets. It deals with global marketing strategies, global localization and different marketing approaches. It explores how the marketing mix might be adapted for global markets and how Ansoff's Matrix and Porter's strategic matrix might be applied to global markets. Finally, the section investigates the cultural and social factors that businesses might need to consider when selling in global markets.</p> <p><b>Unit of Study: Strategic methods: how to pursue strategies</b>                      Many owners want their business to grow. This section explores the objectives of growth such as economies of scale, increased market power, increased market share, increased brand recognition and</p>

	increased profitability. It also looks at the distinction between organic and inorganic growth. It considers the methods of organic growth and the advantages and disadvantages of this growth strategy. Finally, the section looks at the problems arising from growth such as diseconomies of scale, internal communication difficulties and overtrading.
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#### Useful Resources/Websites

Tutor2U : <https://www.tutor2u.net/business/reference>

Seneca: <https://app.senecalearning.com/classroom/course/9657d939-366c-4b0d-a89d-c7fdbf336bbd/section/a27cf301-49bf-403d-a570-115ecdf9c710/session>

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Term	Topics to be Studied
<b>Autumn Term 1a</b>	<p>In term 1 Students will complete two mandatory units and one optional unit . The assignments that will be completed cover the following units:</p> <ul style="list-style-type: none"> <li>• Unit 3: Business Finance</li> <li>• Unit 4: Managing an Event (Tasks A, B, and C)</li> </ul>
<b>Autumn Term 1b</b>	<p>Students will then complete one half of a mandatory unit and an optional unit. The assignments that will be completed cover the following units:</p> <ul style="list-style-type: none"> <li>• Unit 4: Managing an Event (Tasks D and E)</li> <li>• Unit 8: Human Resources</li> </ul>
<b>Spring Term 2a</b>	<p>In term 2, students will complete one mandatory unit. The assignments that will be completed cover the following units:</p> <ul style="list-style-type: none"> <li>• Unit 7: Business Decision Making</li> </ul>
<b>Spring Term 2b</b>	<p>Students will then complete one optional unit. The assignments that will be completed cover the following units:</p> <ul style="list-style-type: none"> <li>• Unit 9: Team Building in Business</li> </ul>

### Useful Resources/Websites

<https://qualifications.pearson.com/en/qualifications/btec-international-level-3/business.html>

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Term	Topics to be Studied
<p><b>Autumn Term 1a</b></p>	<p><b>Unit 16: My Country as a Tourist Destination</b>                      In this unit, we will gain an understanding of why tourism from inbound visitors and from the domestic market is important for the economy of your country. This unit will build on the knowledge gained through other units and will give us an opportunity to investigate your country as a holiday destination and understand why it is a dynamic place for tourists to visit, whatever their nationality and interests. We will learn about key destinations, recommend routes and itineraries using private and public transport or both, and cost and work within the visitor’s budget.</p>
<p><b>Autumn Term 1b</b></p>	<p><b>Unit 17: The Accommodation Sector in the Travel and Tourism Industry</b>                      We will examine the accommodation sector in the travel and tourism industry by exploring the different types of accommodation and the ownership, structure, trends and operational practices that are found in the sector. Finally, we will review the use of technology, both for operations and to enhance the customer experience.</p>
<p><b>Spring Term 2a</b></p>	<p><b>Unit 18: Researching Current Travel Trends and Key Issues in Travel and Tourism</b>                      In this unit, we will investigate current travel trends and current key issues and evaluate their effects on the travel and tourism industry. We will develop an understanding of the methods used to collate information and use this to plan and define the scope of a research proposal after reviewing the suitability of one chosen current travel trend and one current key issue and the availability of research information. We will present your findings and analyse both.</p>
<p><b>Spring Term 2b</b></p>	<p><b>Unit 11: Events, Conferences and Exhibitions for the Travel and Tourism Industry</b>                      We will explore the diversity and scale of events, conferences and exhibitions that the travel and tourism industry is involved with. We will consider the complexity of developing large-scale and small-scale events, which may be local, national or international. We will gain an insight into the processes involved in running an event or conference and consider legal aspects, logistics and subcontracting.</p>
<p><b>Summer Term 3a</b></p>	<p><b>Unit 12: Investigating Overseas Working</b>                      In this unit, we will investigate different types of tour operators and agents and the significance of employee contribution to the overall financial and customer service success of a business. We will explore the importance of establishing effective working relationships with suppliers and working effectively in a legal framework. The unit gives us the opportunity to demonstrate customer service and sales skills through communicating effectively in different situations.</p>
<p><b>Summer Term 3b</b></p>	<p><b>Unit 13: Work Experience in Travel and Tourism</b>                      In this unit, we will learn about different types of work-related learning and their benefits. You will learn what information you need before starting the placement, and how the placement can help you develop key competencies needed for progression to further study or future employability such as self-management, teamwork, problem-solving and communication skills. We will research and take on relevant work experience and evaluate your performance using a reflective journal.</p>

<https://qualifications.pearson.com/content/dam/pdf/btec-international-level-3/travel-and-tourism/specification-and-sample-assessments/btecint-trav-tour-spec.pdf>  
[file:///C:/Users/julius.s2\\_wsd/Downloads/admin,+EJTR\\_15-112.pdf](file:///C:/Users/julius.s2_wsd/Downloads/admin,+EJTR_15-112.pdf)  
<https://business.yougov.com/sectors/travel-tourism>  
<https://www.ttnworldwide.com/Events>  
<https://www.roberthalf.com.au/career-advice/find-job/work-abroad>  
<https://www.healthandfitnesstravel.com/job-opportunities/careers-advice/developing-skills-work-experience-travel-tourism>

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Term	Topics to be Studied
<b>Autumn Term 1a</b>	<p><b>Unit of Study: The Cambridge Research Report</b></p> <p>In this unit, we will be looking at the two main skills need to be developed and demonstrated in the entire process of research report writing, methodical and critical thinking skills. Related to methodical skills, we will be learning about logistical and practical skills. We will be talking about and start to build a research log which shall be regularly updated. We will then proceed to discuss research design, topic selection, developing research question and the practical and personal consideration in doing research.</p>
<b>Autumn Term 1b</b>	<p>This is the continuation of the previous unit. We will learn desk research which will include primary and secondary research, how to conduct a literature search and carrying out a literature review. We will also be having discussions to help you select the most suitable research methods and methodology, how to gather data validly and how to analyse data.</p>
<b>Spring Term 2a</b>	<p>Research Report Writing and Consultations. Research Log Writing.</p>
<b>Spring Term 2b</b>	<p>Research Report Writing and Consultations. Research Log Writing.</p>

### Useful Resources/Websites

[https://www.researchgate.net/publication/325546150\\_WRITING\\_RESEARCH\\_REPORT](https://www.researchgate.net/publication/325546150_WRITING_RESEARCH_REPORT)  
<https://www.ets.org/Media/Research/pdf/RM-12-05.pdf>  
[https://www.academia.edu/38184708/WRITING\\_RESEARCH\\_REPORTS\\_Professor\\_Mbamali](https://www.academia.edu/38184708/WRITING_RESEARCH_REPORTS_Professor_Mbamali)  
<https://www.adelaide.edu.au/writingcentre/sites/default/files/docs/learningguide-writingaresearchreport.pdf>  
[http://pathways-egypt.com/subpages/downloads/Research\\_Chapter\\_7.pdf](http://pathways-egypt.com/subpages/downloads/Research_Chapter_7.pdf)

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Term	Topics to be Studied
Autumn Term 1a	<p><b>Unit 13 – Emerging Technologies</b> In this unit, we will be learning to explore new and emerging technologies. We will be comparing and evaluating uses of different emerging technologies in real life and environment.</p> <p><b>Unit 16 – System Life Cycle</b> In this unit, we will be learning to describe and discuss all the stages of system life cycle in detail. We will also be learning to construct diagrams to represent system processing and the flow of the data. We will also design data storage, input forms and output reports.</p> <p><b>Unit 17 – Mail Merge</b> We will be learning to perform a mail merge. We will be creating master document, source document and link them together. We will also be creating prompts for the user and applying rules like if..then.. Else to select records in a mail merge document.</p>
Autumn Term 1b	<p><b>Unit 20 – Programming for the Web</b> In this unit, we will be learning to use JavaScript to add interactivity to webpages, change HTML content, styles and display data in different ways. We will also be learning to use correct syntax to create statements, use loops, create functions, use timing events and add comments to annotate and explain code.</p> <p><b>Unit 12 – IT in Society</b> In this unit, we will be learning to understand different types of electronic currency, discuss their advantages and disadvantages and evaluate their uses, impacts and risks. We will also be learning to understand data mining and social networking and analyse and evaluate their impact on range of areas in society.</p>
Spring Term 2a	<p><b>Unit 14 – Communication Technologies</b> In this unit, we will be learning to explore different types of networks, their characteristics, uses and their advantages and disadvantages. We will also be learning to explore different components in a network, types of network servers, their roles and operation, data transmissions and different methods of routing data over a network, including packet switching, circuit switching and message switching.</p> <p><b>Unit 15 – Project Management</b> In this unit, we will be learning to describe the use of project management software, its strengths and weaknesses and evaluate tools and techniques for project management.</p> <p><b>Unit 18 – Graphics Creation</b> In this unit, we will be learning to use and apply common graphic skills like work with layers, use merging tools, alignment and layout tool, colour picker and crop tools. We will also be learning to understand the needs for different image resolution and export image in different file formats.</p>
Spring Term 2b	<p><b>Unit 19 – Animations</b> In this unit, we will be learning to create animation and configure the stage/frame/canvas for an animation. We will also be learning to understand the basic principle of animations, different animation types and methods and the use of animation variables when creating animations.</p> <p><b>Paper 3 – Advanced Theory - Preparation of A Level Paper 3</b> We will be practicing solving question from AS level paper 1 past papers in order to check student understanding and knowledge of the unit 12 – 17. We will also be discussing exam techniques.</p> <p><b>Paper 4 –Advanced Practical – Preparation of A Level Paper 4</b> We will be practicing solving question from AS level paper 2 past papers in order to check student understanding and knowledge of the unit 18– 20. We will also be discussing exam techniques.</p>

## Useful Resources/Websites

<https://www.cambridgeinternational.org/Images/554602-2022-2024-syllabus.pdf>

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Term	Topics to be Studied
<p><b>Autumn Term 1a</b></p>	<p><b>Unit 1: Data Structure</b>                      In this s we will learn about different concepts of data structure in programming, we will learn about the working of Queues, Lists, Stacks, Hash tables and dictionaries using Python coding, we will also learn graphical representation of programming structure using techniques of Graphs, Trees and Vectors.</p> <p><b>Unit2: Algorithms:</b>                      In this unit we will learn about different logical algorithms used in programming, we will learn about Recursive, different Searching and Sorting, Graph and Tree traversal and Optimisation algorithm, we will also learn to calculate time and space complexity of a program using Big O notation and Limits of computing</p> <p><b>Unit 3: The internet</b>                      In this unit we will learn about Structure of the internet, learn about Packet and Circuit switching, TCP/IP and application layer protocols used for data transmission and basics of IP addresses and Client Server modelling.</p> <p><b>Unit 4: Databases and software development</b>                      In this unit we will learn about basics of Database, entity relationship modelling, generating queries by example and understand basics of SQL. We will also learn to define and update database table using SQL statements.</p> <p><b>NEA:</b> Non-exam Assessment: Students will be working on their individual project work.</p>
<p><b>Autumn Term 1b</b></p>	<p><b>Unit 5: OOP and functional programming</b>                      In this unit, we will learn about basic concept of Functional programming and Function application we will also learn about to use lists in functional programming. We will learn about Big data concepts and how it is used in real life applications</p> <p><b>Unit 9: Regular languages</b>                      In this unit we will learn about context free language and converting programming concepts into regular language to calculate, sort and search data. We will learn about Melay machines, Sets, regular expressions, BNF form, and reverse polish notations</p> <p><b>NEA:</b> Non-exam Assessment: Students will be working on their individual project work</p>
<p><b>Spring Term 2a</b></p>	<p><b>Unit 10: Fundamentals of Programming</b>                      In this unit we will be learning about basics concepts required for programming, like data types, input, output functions, arithmetic and logical functions, writing basic programs. we will learn about selection and iteration conditional statement implementation in programming. We will also learn to decode pseudocode and algorithm. We will be familiar with subroutines, their uses and advantages. We will be able to use subroutines that return values to the calling routine, be able to describe the use of parameters to pass data within programs, be able to contrast the use of local and global variables</p> <p><b>Unit 11: Data Representation:</b>                      In this unit we will learn about defining a natural number, an integer and a real number, explain the difference between a rational and irrational number by example, will understand and use ordinal numbers in context and convert between binary, decimal and hexadecimal number systems. We will be learning to add and multiply together two unsigned binary numbers, convert between signed binary and decimal and vice versa, represent positive and negative numbers in two's complement and specify the range of n bits, perform subtraction using two's complement.</p>

<b>Spring Term 2b</b>	NEA: Non-exam Assessment: Students will be working on their individual project work Revision of Paper 2: Theory
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#### Useful Resources/Websites

<https://www.aqa.org.uk/subjects/computer-science-and-it/as-and-a-level/computer-science-7516-7517/subject-content-a-level>

**For NEA:**

<https://www.aqa.org.uk/subjects/computer-science-and-it/as-and-a-level/computer-science-7516-7517/non-exam-assessment-administration>

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Term	Topics to be Studied
<p><b>Autumn Term 1a</b></p>	<p><b>Unit 4: Programming</b>                      In this unit, you will learn about computational thinking skills and the principles of designing and developing computer programs. You will apply computational thinking skills to design, develop, test, refine and review computer programs for a given range of purposes. By developing your analytical, problem-solving and programming skills, this unit will help you to progress to higher education or to employment as a software developer.</p> <p><b>Unit 13: Software Testing</b>                      In this unit, you will learn about the different software testing methodologies that are used as part of commercial software development projects, and the effects of different software development methodologies. You will analyse the user requirements for a software product or service to produce suitable test plans, based on specifications and development tasks, and select and apply different test methodologies to the software post development. You will evaluate and present the results of your testing to inform development team members of their progress and success.</p>
<p><b>Autumn Term 1b</b></p>	<p><b>Unit 18: Internet of things</b>                      We will investigate the applications of different IoT systems and services, including the principals involved and the characteristics of the systems and services. We will design a prototype IoT system or device and develop it using off-the-shelf hardware and suitable programming languages, techniques, and constructs.</p>
<p><b>Spring Term 2a</b></p>	<p><b>Unit 12: IT Technical Support Management</b>                      In this unit, you will examine the support and management needs and characteristics of IT systems used by organisations, identifying areas where support is necessary and the different job roles involved. You will carry out a series of practical IT support activities on a system and a range of devices, which could include performing software updates and changing user access rights. You will monitor system performance and optimise it to meet the client’s requirements. You will learn about and apply appropriate behaviours to complete these activities. Finally, you will prepare a support and management plan for a new IT system.</p>
<p><b>Spring Term 2b</b></p>	<p><b>Unit 9: IT project management</b>                      We will investigate the principles of project management and different project management methodologies, as used in the IT industry. We will deliver an IT project using at least one project management methodology and complete the five main stages of a project. We will initiate the project by researching a problem and using your creative skills to generate a range of solutions, undertaking a feasibility study to select an appropriate solution and outline the requirements of the project.</p>
<p><b>Summer Term 3a</b></p>	<p><b>Unit 15: Cloud Storage</b>                      We will learn about how different cloud-based technologies can be used to meet a range of clients’ needs. We will explore the characteristics, benefits and drawbacks of these technologies, considering their impact on individuals and organisations. We will analyse the IT needs of an organisation and how cloud storage and collaboration tools will meet the organisation’s needs. Finally, students will design and implement a cloud-based solution to meet a client’s need.</p>
<p><b>Summer Term 3b</b></p>	<p><b>Unit 20: Business process and modelling tools</b>                      We will investigate business aims and objectives, organisation models and departmental functions and processes and their interrelationships. We will select a specific business process to examine and produce a model of the way it operates. Finally, we will develop a plan to improve the process to better support the businesses aims and objectives.</p>

## Useful Resources/Websites

<https://qualifications.pearson.com/content/dam/pdf/btec-international-level-3/it/specification-and-sample-assessments/btec-international-level-3-it-specification.pdf>

Programming Resource:

<https://www.udemy.com/course/the-python-bible/>

<https://www.codecademy.com/learn/paths/computer-science>

<https://www.w3schools.com/python/default.asp>

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Term	Topics to be Studied
<b>Autumn Term 1a</b>	<p><b>Technology in French speaking world: La technologie dans les pays Francophones:</b>                      In this unit, Students will learn about scientific advances and technological innovation in the French speaking world, they will also discuss the impact of this new technology on life and environment.</p>
<b>Autumn Term 1b</b>	<p><b>Society in the French speaking world: Migration: L'Immigration</b>                      In this unit, Students will learn about what kind of people migrate to France, from where they are coming and what are the migrant status that they can request. They will learn, as well, what are the advantages and disadvantages of migration and what is the autochthones opinion about that.</p>
<b>Spring Term 2a</b>	<p><b>Society in the French speaking world: Equality</b>                      In this unit, Students will discover equality in the French job market but also in the French society. They will learn what are the women rights in France and how the government is fighting inequality.</p>
<b>Spring Term 2b</b>	<p><b>Society in the French speaking world: Politics</b>                      In this unit, Students will discover French politic life, they will learn about the different politic movements in France and what are their impact on French society. Additionally, students will learn about the interest of young French people on politic life and how it impacts their lives.</p>

### Useful Resources/Websites

<https://www.francaisfacile.com/exercices/exercice-francais-2/exercice-francais-24062.php>

<https://www.lemonde.fr>

<https://theidealteacher.com/6-french-listening-websites-to-improve-gcse-skills>

<https://www.francaisfacile.com/>

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