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Aim High Progress Study Programme _ (Year 13) - October 2025

Subject	Focus	Activities	Useful website
Accounting	<p>To evaluate the performance of a business based on budgeted information.</p> <p>To make recommendations as to how the performance of a business, as revealed by a business could be improved.</p>	<p>Download an annual report of a company; understand the Profit and Loss of the company for 3 years.</p> <p>Present a budget for next year by taking into consideration the various changes in expenses and income.</p>	<p>www.myaccountinglab.com,</p> <p>www.bized.co.uk</p> <p>www.tutor2u.net</p> <p>www.cie.org.uk,</p>
Arabic	<ul style="list-style-type: none">• قصيدة أرق على أرق• قصة ما لن يأتي عبر النافذة• كتابة استجابة لنص أدبي	<ul style="list-style-type: none">• ابحث عن نبذة عن حياة الشاعر والأغراض التي برع فيها• حلل كيف تعكس الصور الفنية والمفردات الحالة النفسية أو العاطفية للشاعر، مع تقديم أمثلة داعمة• استخرج القيم أو الرسائل الفكرية والأخلاقية التي يطرحها الشاعر، وناقش مدى ارتباطها بعصره أو بواقعنا المعاصر• حدد الفكرة الرئيسية في القصيدة وشرح الرسالة التي يريد الشاعر إيصالها• تتبع خط تصاعد الأحداث منذ بداية الأحداث حتى نهايتها• اشرح المغزى من القصة مع تطبيقها في حياتنا الواقعية• ضع حلاً مختلفاً للقصة من إبداعك	<p>https://uae-school.com/archives/14620</p> <p>https://serai-uae.com/file/7755/#3</p> <p>https://www.uae-study.com/file/57860/</p>



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		<ul style="list-style-type: none">• راجع قراءة قصة ما لن يأتي عبر النافذة و اكتب مسودة استجابة أدبية لها من وجهة نظرك أو عالجهما من وجهة نظر أحد الشخصيات	
Islamic for Arabs	<p>TOPIC:</p> <p>سورة النور 11-20 - حديث الإفك الاسلام ينبذ التطرف</p> <p>Learning objectives:</p> <p>بنهاية الدرس يتوقع أن يكون الطالب قادرًا على:</p> <ol style="list-style-type: none">1. يفسر معنى الإفك وأسبابه.2. يستنتج الدروس التربوية من حادثة الإفك.3. يحلل أثر الشائعات في تدمير سمعة الأفراد والمجتمعات.4. يربط بين التشريع الإسلامي والقوانين المعاصرة في مواجهة الشائعات <p>يعرّف التطرف والوسطية ويبيّن الفرق بينهما.</p> <p>يستنتج الأسباب التي تؤدي إلى التطرف.</p> <p>يفسر النصوص القرآنية والحديثية التي تدعو للاعتدال.</p> <p>يحلل آثار التطرف على الفرد والمجتمع.</p>	<p>ابحث في معنى "الإفك" لغويًا وشرعيًا، واربطه بظاهرة الشائعات الكاذبة في عصرنا.</p> <p>حلّل أبرز الدروس المستفادة من حادثة الإفك، مثل الصبر والثقة بالله، ثم اربطها بحياة الشباب اليوم</p> <p>ناقش كيف تضر الشائعات بسمعة الأفراد واستقرار المجتمع، مع ربطها بوسائل التواصل الاجتماعي.</p> <p>حلّل كيفية تعامل النبي ﷺ مع حادثة الإفك، واربطه بأسلوب إدارة الأزمات في العصر الحديث.</p> <p>ابحث في الآيات التي أعلنت براءة السيدة عائشة، وناقش دلالة ذلك على عدل الله وحماية سمعة الأبرياء.</p> <p>ابحث في معنى التطرف لغة وشرعًا، وقارن بينه وبين الوسطية في الإسلام</p>	<p>https://quran.ksu.edu.sa/tafseer/saadi/sura24-aya11.html?utm_source=chatgpt.com</p> <p>https://www.awqaf.gov.ae/?utm_source=chatgpt.com</p> <p>https://www.alukah.net?utm_source=chatgpt.com</p> <p>https://www.moe.gov.ae?utm_source=chatgpt.com</p> <p>https://www.un.org/?utm_source=chatgpt.com</p> <p>https://www.alukah.net?utm_source=chatgpt.com</p> <p>https://hedayahcenter.org?utm_source=chatgpt.com</p>



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		<p>حلّ بعض المظاهر السلوكية والفكرية للتطرف، واربطها بما قد يظهر بين الشباب في المدارس والجامعات.</p> <p>ابحث في الأسباب الفكرية والاجتماعية التي تؤدي إلى التطرف، واقترح حلولاً عملية للوقاية منه.</p> <p>استخرج من القرآن الكريم ما يدل على وسطية الإسلام (مثل: ﴿وكذلك جعلناكم أمة وسطاً﴾)، واربطها بمبدأ الاعتدال في الحياة.</p> <p>ابحث في مواقف نبوية تُظهر رفض الغلو في العبادة أو التعامل، وناقش كيف تعالج هذه المواقف الفكر المتشدد.</p>	
Islamic for non-Arabs	TOPIC: MARITAL DISSOLUTION- SEPARATION OF SPOUSES EXTREMISM Learning objectives:	WRITE DOWN AN ARTICLE ON THE IMPORTANT OF MUTUAL RESPECT IN BUILDING A UNITED FAMILY? COMPARE THE FAMILY SYSTEM BEFORE ISLAM AND HOW IT CHANGED AFTER THE PROPHETHOOD OF PROPHET (P.B.U.H). GIVE SOME EXAMPLES OF THE EFFORTS OF U.A.E TO ENHANCE THE	https://thenoor.co/blog/the-importance-of-family-in-islam-strengthening-bonds-and-values/



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	<p>-To comprehend the importance of a balanced relationship of spouses</p> <p>- To analyse the social importance of a happy relationship between spouses.</p> <p>To elucidate the concept of balances views and moderation in Islam</p> <p>-To evaluate the factors lead to imbalance and how can we address this issue.</p>	<p>IMPORTANCE OF STRONG FAMILY TIES AMONG OF ITS PEOPLE.</p> <p>RECORD A VIDEO ON HOW HAS U.A.E SUCCESSFULLY IMPLEMENTED STRATEGIES AGAINST EXTREMISM? MENTION IN YOUR VIDEO THEIR EFFORTS TOWARDS THIS ISSUE .</p>	<p>https://islamqa.info/en/answers/9466/what-is-moderation-in-religion</p>
Art and Design	<p>Personal Investigation: in-depth study that demonstrates the candidate’s ability to carry out independent research from the starting point of their choice through to a fully realised and coherent conclusion.</p>	<p>Record ideas, observations and insights relevant to intentions, understanding of conveying a personal response though fine art, working on a theme.</p>	<p>www.studentartguide.com</p>
Business	<p>Topic: Analysis of published accounts</p> <p>✓ To analyse how improving liquidity can help reduce working capital problems. To evaluate the usefulness of calculating liquidity and profitability ratios. To analyse the methods of improving financial efficiency</p>	<ul style="list-style-type: none"> ▪ Students identify and discuss how the gearing ratio may affect the following areas of the business: <ul style="list-style-type: none"> ○ potential shareholders/investors ○ current owners ○ sources of finance. 	<p>http://www.companieshouse.gov.uk/accounts/</p> <p>https://znotes.org/caie/a2-level/business-9609/theory/analysis-of-published-accounts/</p>



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		<ul style="list-style-type: none">▪ Research on how the managers of a business may still try to encourage investment despite poor gearing.▪ Critically evaluate the best ways to improve the liquidity of each business.▪ Critically evaluate and discuss how the investment ratios may affect business decisions	https://dineshbakshi.com/as-a-level-business-studies/finance-and-accounting/revision-notes/1456-ratio-analysis
Biology	Inherited Changes <ul style="list-style-type: none">• Solve Problems using genetic diagrams involving test crosses, dihybrid cross, X linked inheritance.• Use the chi-squared test to test the significance of differences between observed and expected results (the formula for the chi-squared test will be provided) (see Mathematical requirements) Homeostasis:• Relate the detailed structure of the Bowman's capsule and proximal convoluted tubule to their functions in the formation of urine.	<ul style="list-style-type: none">• Draw annotated diagrams, using colors or shading, to show how two adjacent cells (haploid number 2) can produce 4 genetically different gametes by independent assortment.• Create Models using different recyclable material to consolidate learning of:• Create a model of a Nephron and Label it correctly.• Create a flow chart that illustrates the roles and	http://www.contexo.info/DNA_Basics/Meiosis.htm http://highered.mcgrawhill.com/sites/0072495855/student_view0/chapter28/animation_how_meiosis_works.html https://www.khanacademy.org/science/biology/human-biology/kidney-nephron/v/the-kidney-and-nephron



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	<ul style="list-style-type: none"> • Describe the roles of the hypothalamus, posterior pituitary gland, antidiuretic hormone (ADH), aquaporins and collecting ducts in osmoregulation. • Describe the principles of cell signalling using the example of the control of blood glucose concentration by glucagon. 	<p>interactions of each component (hypothalamus, posterior pituitary gland, antidiuretic hormone, ADH, aquaporins and collecting ducts) in maintaining water balance in the body.</p> <ul style="list-style-type: none"> • Prepare a presentation on the principles of cell signalling using the example of glucagon. 	<p>https://studymind.co.uk/notes/anti-diuretic-hormone/ https://www.open.edu/openlearn/science-maths-technology/cell-signalling/content-section-4.1</p>
<p>Economics</p>	<ul style="list-style-type: none"> • Analyse the reasons for different sizes of firms, explain the difference between internal and external growth • Analyse the conditions and consequences for an effective cartel • Discuss the principal agent problem • Analyse the profit maximising objectives of firms along with other objectives of firms • Analyse the price discrimination and other pricing policies • Analyse the effects of fiscal, monetary, supply-side, protectionist, and exchange rate policies 	<ul style="list-style-type: none"> • Provide short case studies of real-world firms (e.g., Amazon, a local café, Starbucks, Uber). Students sort them into <i>internal growth</i> (e.g., opening new branches, reinvestment) vs <i>external growth</i> (mergers, takeovers, joint ventures). • Divide the class into groups representing firms in a cartel (e.g., OPEC). Give each group the choice of colluding or cheating on 	<p>Tutor2u business case studies (https://www.tutor2u.net/business)</p> <ul style="list-style-type: none"> · BBC Business news for real-world firm examples · Economics Online (https://www.economicsonline.co.uk) → Cartels



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	<p>on the balance of payments. Distinguish between expenditure-switching and expenditure-reducing policies.</p>	<p>agreed prices/quantities. Track outcomes on the board (like a Prisoner's Dilemma).</p> <ul style="list-style-type: none">• Give examples (shareholders vs managers, teacher vs student, government vs bureaucracy). Ask students to identify where objectives differ and how incentives could align interests.• Provide firms with different profiles (start-up tech company, charity-run enterprise, supermarket, luxury fashion brand). Students rank their likely objectives (profit, growth, survival, corporate social responsibility, revenue maximisation).	<ul style="list-style-type: none">· Tutor2u game theory simulation· Investopedia (Principal-Agent Problem explained simply)· Tutor2u economics notes on asymmetric information· Corporate annual reports (e.g., Apple, Unilever, Tesla)· Economics Help (Price Discrimination explanations & diagrams)· Tutor2u activities and classroom simulations· Real-world examples from BBC Business news
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English Language	Linguistics	Research and create a visual presentation on the following topic: <ul style="list-style-type: none">• What is linguistics?• How is the study of linguistics important?• List the names of some prominent linguists and their contribution to society.• How do you think has language evolved over the years?	https://linguistics.ucsc.edu/about/what-is-linguistics.html
Chemistry	<u>Further Aspects of Equilibria:</u> <ul style="list-style-type: none">• To outline the relationship between pH, Ka, pKa and Kw and use them in calculations.• To choose an appropriate indicator for acid-base titration.• To determine the pH of buffer solutions and outline their uses in daily life.• To use solubility product for sparingly soluble salts and justify the effect of common ion.• To deduce partition coefficient (K_{pc}) for a solute partitioned between two immiscible solvents and use it in calculations.	<ul style="list-style-type: none">• Construct titration curves for strong acid-strong base, strong acid-weak base, weak acid-strong base, weak acid-weak base titrations, justifying the choice of indicator used in each titration.• Write an article on “Role of Buffers.”• Create a research paper on the importance of common ion effect (give some real life examples).	http://www.a-levelchemistry.co.uk/42-equilibria.html http://www.chemguide.co.uk/physical/equilibmenu.html http://www.chemguide.co.uk/physical/acidbaseeqia/buffers.html http://alevelchem.com/aqa_a_level_chemistry/unit3.4/s3403/05.htm



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	<p>Chemistry of Carboxylic acids and Acyl chlorides:</p> <ul style="list-style-type: none">• To outline the reactions of carboxylic acids in the formation Of acyl chlorides.• To recognize the ability of some carboxylic acids to be further oxidized• To deduce the relative acidities of carboxylic acids, phenols and alcohols• To apply the concept of electronegativity to explain the acidities of chlorine-substituted ethanoic acids.• To describe the hydrolysis of acyl chlorides• To describe the reactions of acyl chlorides with alcohols, phenols, ammonia and primary amines• To analyze the relative ease of hydrolysis of acyl chlorides, alkyl chlorides and aryl chlorides including the condensation (addition-elimination) mechanism for the hydrolysis of acyl chlorides	<ul style="list-style-type: none">• Write solubility product expressions for five sparingly soluble salts• Solve complex questions based on K_a, pK_a, K_w, K_{sp}, and K_{pc} from past papers.• Make a power-point presentation on chromatography and the principle of partition coefficient.• Practice writing names of derivatives of carboxylic acids.• Create a checklist for nomenclature of derivatives of carboxylic acids.• Compare the physical and chemical properties of derivatives of carboxylic acids, giving a justifications for your choice.• Design step by step animation to show reaction mechanism that operates in acyl chlorides. Clearly showing curly arrows, partial	<p>http://www.docbrown.info/page07/equilibria4.htm</p> <p>http://study.com/academy/lesson/partition-coefficient-definition-and-calculation.html</p> <p>https://chem.libretexts.org/Textbook_Maps/Organic_Chemistry/Map%3A_Organic_Chemistry_(McMurry)/Chapter_21%3A_Carboxylic_Acid_Derivatives%3A_Nucleophilic_Acyl_Substitution_Reactions/21.01_Naming_Carboxylic_Acid_Derivatives</p> <p>https://www.britannica.com/science/carboxylic-acid</p> <p>https://www.chemguide.co.uk/mechanisms/addelim/alcohol.html</p>
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		<p>charges and lone pair of electrons.</p> <ul style="list-style-type: none">• Compare and contrast relative ease of hydrolysis of acyl chlorides, alkyl chlorides and aryl chlorides including the condensation mechanism for the hydrolysis of acyl chlorides• Write an article for newspaper to discuss the importance of derivatives of acyl chlorides.	<p>https://en.wikipedia.org/wiki/Acyl_chloride</p>
Computer Science	<p>Object-oriented programming (OOP) demonstrate an ability to solve a problem by designing appropriate classes</p> <p>odemonstrate an ability to write code that demonstrates the use of classes, inheritance, polymorphism and containment (aggregation)</p>	<p>Encourage your child to develop a software project to include the following:</p> <p>Create a database which can handle the files using OOPS concept.</p>	<p>OOP programming with Python:</p> <p>www.codecademy.com/course/WL8e4?curriculum_id=4f89dab3d788890003000096</p> <p>Object diagram notes:</p> <p>http://en.wikipedia.org/wiki/Object_diagram</p>



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<p>Information technology</p>	<ul style="list-style-type: none"> • Discuss the different stages of project management from project conception to project close • Articulate the role and responsibilities of project managers and recognize the importance of effective communication and collaboration in project management • Able to apply project management principles to analyze a realworld scenario and develop a basic project plan system specification and design specification • Identify a flow of data through a system and create a data flow diagram (DFD) and a system flowchart. • Design and evaluate data collection forms and screen layouts • Design and evaluate validation routines • Create a data dictionary for a given situation 	<p>Case Study: Provide students with real-world case studies of ICT projects and ask them to identify and analyze the different stages in the system life cycle implemented in each case. Students can discuss the challenges faced, the strategies employed, and the outcomes achieved at each stage each stage. evaluate suitable hardware and software for a new system</p> <p>Practical : Introduction to web programming</p>	<p>Effective Communication Better Project Management PMI</p> <p>https://www.researchgate.net/publication/352108029_Effective_Strategies_for_Communicating_and_Managing_Communication_in_a_Project_Team_My_Perspective</p>
<p>Mathematics Pure Mathematics 3 Trigonometry</p>	<ul style="list-style-type: none"> • Understand the relationship of the secant, cosecant and cotangent functions to cosine, sine and tangent 	<p>Research on the application of trigonometry in Flight engineering : Flight engineers have to take in account their speed, distance,</p>	<p>https://www.physicsandmathstutor.com/maths-revision/a-level-edexcel/trigonometry/</p>



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	<ul style="list-style-type: none">• Use properties and graphs of all six trigonometric functions for angles of any magnitude• Use trigonometrical identities for the simplification• Exact evaluation of expressions• Solving trigonometric equations by selecting an identity or identities appropriate to the context, showing familiarity in particular with the use of $\sec^2 t = 1 + \tan^2 t$, $\operatorname{cosec}^2 t = 1 + \cot^2 t$• The expansions of $\sin(A \pm B)$, $\cos(A \pm B)$ and $\tan(A \pm B)$• Double angle formulae for $\sin 2A$, $\cos 2A$ and $\tan 2A$ <p>the expression of $a \sin t + b \cos t = R \sin(t \pm \alpha)$ or $R \cos(t \pm \alpha)$</p>	<p>and direction along with the speed and direction of the wind. The wind plays an important role in how and when a plane will arrive where ever needed this is solved using vectors to create a triangle using trigonometry to solve</p> <p>CRIMINOLOGY : In criminology, trigonometry can help to calculate a projectile's trajectory, to estimate what might have caused a collision in a car accident or how did an object fall down from somewhere, or in which angle was a bullet shot etc.</p> <p>MARINE ENGINEERING: In marine engineering trigonometry is used to build and navigate marine vessels. To be more specific trigonometry is used to design the Marine ramp, which is a sloping surface to connect lower and higher level areas, it can be a slope or even a staircase depending on its application</p>	<p>https://www.mathsgenie.co.uk/a-level-pure-trigonometry.html</p> <p>https://alevelmathsrevision.com/downloads/IAL/Trigonometric%20Equations%20and%20Identities%20Exam%20Questions.pdf</p> <p>https://digitalteachers.co.uk/wp-content/uploads/2022/11/A-level-math-paper-1-Trigonometry.pdf</p> <p>https://alevelmathsrevision.com/maths-categorised-exam-questions/</p>
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<p>Mechanics</p>	<p>Newton's laws of motion</p> <ol style="list-style-type: none"> 1. Newton's Laws (Conceptual Understanding) 2. Linear Motion with Constant Forces 3. Mass and Weight 4. Inclined Planes 5. Connected Particles <p>Momentum</p> <ol style="list-style-type: none"> 1. Definition and Nature of Momentum 2. Conservation of Linear Momentum 3. Direct Impact of Two Bodies. 	<ul style="list-style-type: none"> • Concept Mastery • Real-Life Application Tasks • Peer Teaching • Timed Drills & Past Papers • Direct Impact of Two Bodies Problem Solving • Direction Practice • Timed Problem Sets 	<ul style="list-style-type: none"> • Khan Academy – Forces and Newton's Laws • https://www.physicsclassroom.com/class/newtlaws • Cambridge Website <p>PhET – Collision Lab Simulation</p> <p>Physics Classroom – Momentum</p>
<p>Statistics 2</p>	<p><u>Linear combination of random variables</u></p> <p>use, when solving problems, the results that</p> <ul style="list-style-type: none"> • $E(aX + b) = aE(X) + b$ and $\text{Var}(aX + b) = a^2 \text{Var}(X)$. $E(aX + bY) = aE(X) + bE(Y)$; $\text{Var}(aX + bY) = a^2 \text{Var}(X) + b^2 \text{Var}(Y)$ for independent X and Y • if X has a normal distribution then so does $aX + b$; 	<p>Research and summarise findings with examples on real life application of linear combination of random variables.</p>	<p>https://www.statlect.com/probability-distributions/normal-distribution-linear-combinations</p> <p>https://stattrek.com/random-variable/combination.aspx</p> <p>https://revisionmaths.com/advanced-level-maths-</p>



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	<ul style="list-style-type: none"> • if X and Y have independent normal distributions then $aX + bY$ has a normal distribution • if X and Y have independent Poisson distributions then $X + Y$ has a Poisson distribution. <p><u>Continuous random variables</u></p> <ul style="list-style-type: none"> • understand the concept of a continuous random variable, and recall and use properties of a probability density function. 	<p>Investigate about the properties and use of probability density function and summarise your learning.</p>	<p>revision/statistics/continuous-random-variables</p>
<p>Sociology</p>	<p><u>Education and social mobility</u></p> <ul style="list-style-type: none"> • To evaluate equal opportunity and the idea of meritocracy 	<ul style="list-style-type: none"> • Explain and illustrate the term equal opportunity and recap Parsons and meritocracy. • Identify ways in which education can contribute to social mobility. Discuss the obstacles to achieving social mobility through education. Consider the extent to which education systems offer free and equal opportunity for all learners. • Ask the learners to mind map how social mobility links to 	<p>www.equalitytrust.org.uk/social-mobility-and-education (The Equality Trust – global data and discussion)</p>



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		education and how education impacts upon the lives of those learners.	
Psychology	<p><u>Issues and Debates:Determinism</u></p> <p>To describe, explain and identify issues associated with determinism</p>	<p><i>Introduce the Case</i></p> <p><i>Present a short scenario: A young man commits theft. His lawyer argues he cannot be held fully responsible because his behaviour was determined by his upbringing (poverty, abusive home, genetic predisposition to impulsivity). The prosecution argues he exercised free will and made a conscious choice.</i></p> <p><i>Step 2 – Half the class = Defence (Determinism side) → Argue that his behaviour was determined (biological, environmental, psychic).</i></p> <ul style="list-style-type: none"> • Half the class = Prosecution (Free Will side) → Argue that he acted out of free choice. 	<p>http://psychotron.org.uk/resources/abnormal/AS_AQA_abnormality_definitions.pdf</p> <p>and</p> <p>www.psychotron.org.uk/resources/abnormal/AS_AQA_abnormality_definitions.ppt</p>



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		<ul style="list-style-type: none">• Step 3 – Evidence Building <p>Each side prepares arguments using psychological approaches:</p> <ul style="list-style-type: none">• Determinist arguments:<ul style="list-style-type: none">○ Biological determinism (genes, brain chemistry).○ Environmental determinism (conditioning, reinforcement).○ Psychic determinism (unconscious drives).• Free will counterpoints:<ul style="list-style-type: none">○ Humanistic psychology (self-actualisation, choice).○ Cognitive approach (conscious decision-making). <p>Step 4 – Mini-Trial</p> <ul style="list-style-type: none">• Defence and Prosecution present their case (2–3 minutes each).• Class jury (neutral students or rotating roles) votes: Was the	
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		<p>behaviour determined or chosen freely?</p> <p>Step 5 – Debrief and Issues</p> <p>Teacher leads discussion:</p> <ul style="list-style-type: none"> • Issues with determinism: <ul style="list-style-type: none"> ○ Reductionism (oversimplifies complex behaviour). ○ Lack of personal responsibility/accountability. ○ Hard vs. soft determinism distinction. ○ Ethical/legal implications (crime, punishment, treatment). <p>Link back to debates in psychology and real-world application.</p>	
Computer Science	Object-oriented programming (OOP) demonstrate an ability to solve a problem by designing appropriate classes	Encourage your child to develop a software project to include the following:	OOP programming with Python: www.codecademy.com/courses/python-intermediate-en-



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	odemonstrate an ability to write code that demonstrates the use of classes, inheritance, polymorphism and containment (aggregation)	Create a database which can handle the files using OOPS concept.	WL8e4?curriculum_id=4f89dab3d788890003000096 Object diagram notes: http://en.wikipedia.org/wiki/Object diagram
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