

Year 12 Report Domains Spring 2022





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Guide to Grades		
Descriptor	SIMS Code	Description
Significant strength	1	A deep understanding of complex knowledge structures Has the capacity for skilful performance A very high success rate
Secure understanding	2	A good foundation for future learning Secure understanding of concepts and key vocabulary New knowledge bonds to existing knowledge
Some gaps	3	There is some confusion or uncertainty, but this can be addressed by further practice, review, revisiting and re-teaching
Cause for concern	4	Gaps in knowledge are preventing the acquisition of further learning



AQA Business		
Ref	Key Knowledge	Next Steps
1	Enterprising behaviour and market opportunities	Pupil drive, Business Studies Mr Clarke, Applied Business, Year 12, Unit 3 Entrepreneurial Opportunities, PO1
2	Innovation, risk and uncertainty	Pupil drive, Business Studies Mr Clarke, Applied Business, Year 12, Unit 3 Entrepreneurial Opportunities, PO1
3	Deciding on operational activities and a viable personal enterprise	Pupil drive, Business Studies Mr Clarke, Applied Business, Year 12, Unit 3 Entrepreneurial Opportunities, PO3
4	Risks and uncertainties for the personal enterprise	Pupil drive, Business Studies Mr Clarke, Applied Business, Year 12, Unit 3 Entrepreneurial Opportunities, PO4
5	Contingencies for the personal enterprise	Pupil drive, Business Studies Mr Clarke, Applied Business, Year 12, Unit 3 Entrepreneurial Opportunities, PO4
6	Potential Target Markets	Pupil drive/Applied Business Mrs Lawler/Enterprise- supporting powerpoint and worksheet and writing frame template
7	Support Networks for entrepreneurs	Pupil drive/Applied Business Mrs Lawler/Enterprise- supporting powerpoint and worksheet and writing frame template Social Media pages- following small businesses and community groups. https://www.gov.uk/business-support-helpline
8	Customer Value Propositions	Pupil drive/Applied Business Mrs Lawler/Enterprise- supporting powerpoint and worksheet and writing frame template
9	Deciding on marketing activities and a viable personal enterprise	Pupil drive/Applied Business Mrs Lawler/Enterprise- supporting powerpoint and worksheet and writing frame template
	Outlining, analysing and evaluating ways in which competitive advantage can be held	Pupil drive, Applied Business Mr Daly, assignment 1, template 4
10	Competitive analysis including Porters' Five Forces and other factors to assess competitive position	Pupil drive, Applied Business Mr Daly, assignment 2, template 1



Art		
Ref	Key Knowledge	Next Steps
1	Develop fresh ideas that have contextual meaning.	How to choose a topic: A Level Art How to start your A-Level art coursework - YouTube Finding inspiration - Video - GCSE Art and Design - BBC Bitesize Finding inspiration - Finding inspiration - GCSE Art and Design Revision - BBC Bitesize Visual Arts Journal Ideas – IB DP VA with Miss A https://www.eduqas.co.uk/qualifications/art-and-design-as-a-level/?sub_nav_level=course-materials#tab_resources https://thecreativeindependent.com/guides/how-to-write-an-artist-statement/
2	Write about artists showing personal understanding.	Analysing and evaluating - Analysing and evaluating - GCSE Art and Design Revision - BBC Bitesize Artists & Themes - The Arty Teacher https://www.tate.org.uk/file/ways-looking VLE remote art folder “words for art”
3	Explore a wide range of materials.	“Wreck this Journal” by Keri Smith
4	Show skill and improvement using materials.	VLE art knowledge organisers folder Pinterest YouTube
5	Drawing skills (including PRIMARY observation).	VLE art knowledge organisers folder Pinterest YouTube
6	Photography skills.	https://www.youtube.com/watch?v=KFVG_2n-iTM https://www.youtube.com/watch?v=HXIVNdp_SoM https://www.youtube.com/watch?v=OxNh-j8FGX8
7	Use of self-evaluation.	Using annotation - Annotating your work - GCSE Art and Design Revision - BBC Bitesize https://www.eduqas.co.uk/media/butmkbop/310-assessment-objective-checklists.pdf https://www.eduqas.co.uk/media/iw4o5p42/eduqas-as-art-and-design-sams-from-2015-e.pdf
8	Personal engagement with project.	ULTIMATE GUIDE TO GET 9/A* IN GCSE ART // 15 Quick Tips!! - YouTube (32) My A* ART A LEVEL PORTFOLIO // concepts & ideas so far... - YouTube



Biology		
Ref	Key Knowledge	Next Steps
1	Transcription	J:\VLE Content\Science\Year 12\New AS Biology\Year 12\3.4.2. DNA and protein synthesis Protein Synthesis: Transcription A-level Biology OCR, AQA, Edexcel - YouTube
2	Translation	J:\VLE Content\Science\Year 12\New AS Biology\Year 12\3.4.2. DNA and protein synthesis Protein Synthesis: Translation A-level Biology OCR, AQA, Edexcel - YouTube
3	Meiosis	J:\VLE Content\Science\Year 12\New AS Biology\Year 12\3.4.1. DNA, genes and chromosomes Cell Division: Stages of Meiosis A-level Biology OCR, AQA, Edexcel - YouTube
4	Human digestion	J:\VLE Content\Science\Year 12\New AS Biology\Year 12\3.3.3 Digestion and absorption AQA A Level Biology: Digestion and Absorption - Part 1 - YouTube
5	Gas exchange in animals	Gas Exchange in Insects A-level Biology OCR, AQA, Edexcel - YouTube Gas Exchange: The Structure of the Lungs A-level Biology OCR, AQA, Edexcel - YouTube



Business Btec Sgl		
Ref	Key Knowledge	Next Steps
1	Sources of finance	https://www.tutor2u.net/business/topics/sources-of-finance
2	Cash flow forecasts	https://www.tutor2u.net/live/btec-national-business-unit-3-knowledge-blast-personal-finance-1
3	Break-even analysis	https://www.tutor2u.net/business/reference/breakeven-analysis-revision-presentation
4	Statement of comprehensive income	https://www.tutor2u.net/business/reference/introduction-to-the-income-statement
5	Validity, reliability, appropriateness, currency and cost of research methods	Pupil drive/Btec Business Mrs Lawler/2021-2022/Next steps/reliability and validity
6	Interpreting, analysis and use of market research	Pupil drive/Btec Business Mrs Lawler/2021-2022/Next steps/interpreting research
7	Developing a rational using primary research	Pupil drive/Btec Business Mrs Lawler/2021-2022/Next steps/developing a rational
8	Developing a rational using secondary research	Pupil drive/Btec Business Mrs Lawler/2021-2022/Next steps/developing a rational
9	Proposing a marketing mix for a business	Pupil drive/Btec Business Mrs Lawler/2021-2022/Mock/Research Template/Generic template
10	Developing a promotional campaign for a business	Pupil drive/Btec Business Mrs Lawler/2021-2022/Mock/Research Template/Generic template
11	Marketing budgets	Pupil drive/Btec Business Mrs Lawler/2021-2022/Next Steps/Budget
12	Promotional campaign time proposals	Pupil drive/Btec Business Mrs Lawler/2021-2022/Mock/casestdies
13	Extended marketing mix	Pupil drive/Btec Business Mrs Lawler/2021-2022/Research Template/Generic template
14	Using a case study to prepare a marketing proposal for a given business	Pupil drive/Btec Business Mrs Lawler/2021-2022/Mock/casestdies



Business Btec Dbl		
Ref	Key Knowledge	Next Steps
1	Definitions and functions of management and leadership	Pupil drive, BTEC Business Mr Clarke, Unit 6 Principles of Management, LA A
2	Business Culture	Pupil drive, BTEC Business Mr Clarke, Unit 6 Principles of Management, LA A
3	Management and leadership styles and skills	Pupil drive, BTEC Business Mr Clarke, Unit 6 Principles of Management, LA B
4	Managing and planning Human Resources	Pupil drive, BTEC Business Mr Clarke, Unit 6 Principles of Management, LA C
5	Motivation theories in the workplace	Pupil drive, BTEC Business Mr Clarke, Unit 6 Principles of Management, LA D
6	Skill requirements, training and development	Pupil drive, BTEC Business Mr Clarke, Unit 6 Principles of Management, LA D
7	Managing change including stakeholder influence	Pupil drive, BTEC Business Mr Clarke, Unit 6 Principles of Management, LA E
8	Quality standards, culture and management	Pupil drive, BTEC Business Mr Clarke, Unit 6 Principles of Management, LA F
9	Recruitment of staff	Pupil drive, BTEC Business Mr Daly, BTEC Level 3, New BTEC, Double, Unit 8
10	Recruitment and selection process	Pupil drive, BTEC Business Mr Daly, BTEC Level 3, New BTEC, Double, Unit 8
11	Ethical and legal considerations in the recruitment process	Pupil drive, BTEC Business Mr Daly, BTEC Level 3, New BTEC, Double, Unit 8
12	Job applications	Pupil drive, BTEC Business Mr Daly, BTEC Level 3, New BTEC, Double, Unit 8



Chemistry		
Ref	Key Knowledge	Next Steps
1	3.1.1.1 Fundamental Particles	a simple view of atomic structure (chemguide.co.uk)
2	3.1.1.2 mass number and isotopes	Physical-I Detailed 1.1. Atomic Structure (physicsandmathstutor.com) Physical-I Calculations 1.2. Mass Spectrometer (physicsandmathstutor.com)
3	3.1.1.3 Electron configuration	atomic orbitals (chemguide.co.uk) electronic structures of atoms (chemguide.co.uk)
4	3.1.3.5 Shapes of simple molecules and ions	shapes of molecules and ions containing single bonds (chemguide.co.uk)
5	3.1.3.4 Bonding and physical properties	ionic structures (chemguide.co.uk) covalent bonding - single bonds (chemguide.co.uk) metallic bonding (chemguide.co.uk) giant covalent structures (chemguide.co.uk) metal structures (chemguide.co.uk) physical properties of molecular substances (chemguide.co.uk) deciding bond type from physical properties (chemguide.co.uk)
6	3.1.3.7 Forces between molecules	intermolecular bonding - van der Waals forces (chemguide.co.uk) intermolecular bonding - hydrogen bonds (chemguide.co.uk)
7	3.1.3.6 Bond polarity	electronegativity (chemguide.co.uk)
8	3.1.2.2 The mole and Avogadro's constant	Physical-I Detailed 1.2. Amount of Substance (physicsandmathstutor.com) Physical-I Mind-Maps 1.2. Amount of Substance (physicsandmathstutor.com)
9	3.1.2.5 Balanced equations and associated calculations	Physical-I Knockhardy 1.2. Moles, Mass, Reactions and Formulae (physicsandmathstutor.com) Physical-I Knockhardy 1.2. Techniques of Volumetric Analysis (physicsandmathstutor.com)
10	3.1.2.3 The Ideal gas equation	Physical-I Knockhardy 1.2. Moles, Mass, Reactions and Formulae (physicsandmathstutor.com) Physical-I Calculations 1.2. Ideal Gas Equation 1 (physicsandmathstutor.com)
11	3.1.2.4 Empirical and Molecular formula	Physical-I Knockhardy 1.2. Moles, Mass, Reactions and Formulae (physicsandmathstutor.com) Physical-I Calculations 1.2. Empirical Formula (physicsandmathstutor.com)



Computing		
Ref	Key Knowledge	Next Steps
1	Operating system, the role of interrupts and scheduling algorithms	Operating System videos Revision notes and exam questions
2	The need for applications and utilities	Application video Utility video Open source vs proprietary video Revision notes and exam questions
3	Types of translators: Compilers, interrupters and assemblers	Translators video
4	Writing and reading programs in LMC	LMC video Little Man Computer - CPU simulator
5	Thinking logically when writing and reading algorithms	Thinking logically video Revision notes and exam questions
6	Software development and methodologies	Software development videos Revision notes and exam questions
7	Procedural language programming techniques in C#	Procedural programming videos C# Tutorial (C Sharp) (w3schools.com) Use solo learn login and complete tutorials: Learn C# Sololearn
8	Object Oriented programming in C#	OO programming videos C# Tutorial (C Sharp) (w3schools.com) Use solo learn login and complete tutorials: Learn C# Sololearn

(To access files marked “VLE Link” please log in to the Maricourt VLE)

Criminology		
Ref	Key Knowledge	Next Steps
1	Compare campaigns for change	Microsoft Teams, Criminology 2021-2023, files, class materials, Unit 1



2	Evaluate the effectiveness of media used in campaigns for change	Microsoft Teams, Criminology 2021-2023, files, class materials, Unit 1
3	Plan a campaign for change relating to crime	Microsoft Teams, Criminology 2021-2023, files, class materials, Unit 1
4	Design materials for use in campaigning for change	Microsoft Teams, Criminology 2021-2023, files, class materials, Unit 1
5	Justify a campaign for change	Microsoft Teams, Criminology 2021-2023, files, class materials, Unit 1

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Economics		
Ref	Key Knowledge	Next Steps
1	Production and productivity	https://www.tutor2u.net/economics/reference/distinguishing-between-production-and-productivity
2	Costs of production	https://www.tutor2u.net/economics/reference/production-productivity-and-costs-of-supply
3	Economies and diseconomies of scale	https://www.tutor2u.net/economics/reference/revision-presentation-economies-and-diseconomies-of-scale
4	Monopoly and monopoly power	https://www.tutor2u.net/economics/reference/monopoly-revision-presentation
5	Supply side shocks	https://www.tutor2u.net/economics/reference/demand-and-supply-side-economic-shocks
6	Monetary Policy	https://www.tutor2u.net/economics/topics/monetary-policy
7	Fiscal Policy	https://www.tutor2u.net/business/topics/fiscal-policy
8	Supply side policy	https://www.tutor2u.net/economics/blog/supply-side-policy-in-operation-universal-credit



English Literature		
Ref	Key Knowledge	Next Steps
1	Communication of key ideas and themes	https://tavistocktutors.com/blog/how-to-structure-an-english-literature-essay-as-and-a-level https://www.ocr.org.uk/Images/629942-literature-post-1900.pdf
2	Ability to create a well-structured and coherent argument	https://www.youtube.com/watch?v=78K2Ek49dtw https://www.ocr.org.uk/Images/548655-literature-post-1900.pdf https://www.youtube.com/watch?v=okvgq1_h3jc
3	Awareness of the influence of context on texts	https://www.sparknotes.com/lit/dollhouse/context/ https://www.poetryfoundation.org/poets/christina-rossetti https://www.sparknotes.com/lit/dracula/context/ https://www.bl.uk/romantics-and-victorians/articles/the-origins-of-the-gothic https://www.coursehero.com/lit/The-Bloody-Chamber-and-Other-Stories/context/
4	Comparative analysis skills	https://support.ocr.org.uk/hc/en-gb/articles/360040342352-A-Level-English-Literature-AO4-Questions-about-comparison
5	Critical appreciation of different interpretations	https://mrspeacockenglish.wordpress.com/2017/01/14/a-dolls-house-critical-quotations/ https://bloomsburyliterarystudiesblog.com/continuum-literary-studies/2012/11/dracula-in-criticism.html https://aimisliterarymusings.wordpress.com/2017/10/14/a-feminist-approach-to-fairy-tales-the-bloody-chamber/
6	Precise use of analytical methods and terminology	http://holytrinity.academy/wp-content/uploads/2017/04/Literary-Terminology.pdf



Geography		
Ref	Key Knowledge	Next Steps
1	Coastal flooding	Coastal Flooding – p75-76 - Geography for Edexcel – A Level Year 1 – Revision Guide. Seneca - Learn 2x Faster (senecalearning.com)
2	Coastal management	Coastal Management – p77-80 - Geography for Edexcel – A Level Year 1 – Revision Guide. Seneca - Learn 2x Faster (senecalearning.com)
3	Causes and characteristics of globalisation	Understanding Globalisation – p82-83 - Geography for Edexcel – A Level Year 1 – Revision Guide. Seneca - Learn 2x Faster (senecalearning.com)
4	Political influence upon globalisation	Key players in globalisation – p84-85 - Geography for Edexcel – A Level Year 1 – Revision Guide. Seneca - Learn 2x Faster (senecalearning.com)
5	Measuring globalisation	Measuring Globalisation – p88-89 - Geography for Edexcel – A Level Year 1 – Revision Guide. Seneca - Learn 2x Faster (senecalearning.com)
6	Transnational corporations	TNC's and Globalisation – p86-87 - Geography for Edexcel – A Level Year 1 – Revision Guide. Seneca - Learn 2x Faster (senecalearning.com)
7	The global shift	The Global Shift – Winners and Losers – p90-91 - Geography for Edexcel – A Level Year 1 – Revision Guide. Seneca - Learn 2x Faster (senecalearning.com)
8	Reasons for uneven population growth in the UK	Revise Pearson Edexcel AS/A Level Geography Population Distribution p119 Seneca - Learn 2x Faster (senecalearning.com)
9	Perceptions of place -Urban areas	Revise Pearson Edexcel AS/A Level Geography Perceptions of Places p.126-127 Seneca - Learn 2x Faster (senecalearning.com)
10	Perceptions of places – Rural areas	Revise Pearson Edexcel AS/A Level Geography Perceptions of Rural areas p128 Seneca - Learn 2x Faster (senecalearning.com)
11	The influence of media on peoples perception of place	Revise Pearson Edexcel AS/A Level Geography Evaluating peoples views p129 Seneca - Learn 2x Faster (senecalearning.com)
12	The influences that have shaped Liverpool.	Revise Pearson Edexcel AS/A Level Geography Urban Change example p136 Seneca - Learn 2x Faster (senecalearning.com)
13	Migration and its impacts on the UK	Revise Pearson Edexcel AS/A Level Geography UK Diversity p130-131 Seneca - Learn 2x Faster (senecalearning.com)
14	Managing Diverse Places case study.	Revise Pearson Edexcel AS/A Level Geography Managing Rural Change p137 Seneca - Learn 2x Faster (senecalearning.com)



History		
Ref	Key Knowledge	Next Steps
1	Reasons for the economic Crash in the USA. The effects of the depression in the economy and society.	https://www.ushistory.org/us/48.asp https://fee.org/articles/what-caused-the-great-depression/ https://en.wikipedia.org/wiki/Great_Depression
2	The New Deal. Successes and Failures, political challenges to it and the overall impact.	https://saylordotorg.github.io/text_a-history-of-the-united-states-vol-2/s10-the-new-deal-and-origins-of-wo.html https://socialwelfare.library.vcu.edu/eras/ Wider Reading FDR and the New Deal 1932-1940: W Leuchtenberg The USA 1917-1945: S Willoughby and D Willoughby
3	Post war transformation of the USA, Political change and economic development.	www.shmoop.com/1950s/society.html www.fordham.edu/Halsall/mod/modsbook48.asp
4	Cultural and racial change in the USA between 1945 and 1955.	https://history.house.gov/Exhibitions-and-Publications/BAIC/Historical-Essays/Keeping-the-Faith/Civil-Rights-Movement/ Wider Reading Harry Truman and Civil Rights: Moral Courage and Political Risks: M Gardner Grand Expectations The US 1945-74: James T Patterson
5	Students show an understanding of the chronology of events.	Use the VLE - !!!!!!!history/A-level for lessons and knowledge organisers
6	Students show clear understanding of key areas such as the Welfare State and Education.	Use the VLE - !!!!!!!history/A-level for lessons and knowledge organisers https://www.bbc.co.uk/bitesize/guides/zwhsfq8/revision/3
7	Students show clear understanding of key areas such as Change in British Society and Quality of life.	https://www.nationalarchives.gov.uk/education/resources/sixties-britain/ Use the VLE !!!!!!!history/A-level for lessons and knowledge organisers
8	Students show understanding of the demands of answer A-Level exam questions in this unit.	Use the VLE - !!!!!!!history/A-level for lessons and knowledge organisers

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Health		
Ref	Key Knowledge	Next Steps
1	Examine the ethical issues involved when providing care and support to meet individual needs	Pearson Health and Social Care student book. Health and Social Care Remote Learning File Resources unit 5
2	Investigate the principles behind enabling individuals with care and support needs to overcome challenges	Pearson Health and Social Care student book. Health and Social Care Remote Learning File Resources unit 5
3	Human growth and development through the life stages.	Pearson Health and Social Care student book. Health and Social Care Remote Learning File Resources unit 1
4	Factors affecting human growth and development.	Pearson Health and Social Care student book. Health and Social Care Remote Learning File Resources unit 1
5	The effects of ageing.	Pearson Health and Social Care student book. Health and Social Care Remote Learning File Resources unit 1



ICT		
Ref	Key Knowledge	Next Steps
1	Understand how applications are designed using the project life cycle	P1 Methodologies P1 Requirements analysis stage P1 Waterfall Model P1 Design, test, deploy, maintain M1 M1 RAD M1 Incremental M1 Spiral M1 Agile
2	Initiate and plan projects to develop potential solutions for application developments	P2 P2 Constraints and limitations P2 User interface accessibility P2 Functions, processing and outputs P2 Gathering data P2 Data P2 What should the app do? M2 M2 What is feasibility? M2 Technical feasibility M2 Economic feasibility M2 Operational feasibility M2 Legal feasibility M2 Sceduling feasibility M2 Gantt Chart
3	Generate designs for an application meeting idenentied client requirements solutions	P3 and D1 P3 Flowchart P3 Wireframes P2 Data Flow D1 Typeface D1 Signifiers D1 White space and colour theory D1 Affordances
4	Execute a project creating prototypes and presenting them for an application	P4 M3
5	Testing and evaluation of potential solutions	



Maths			
Ref	Key Knowledge	Next steps	
		Video	Questions
1	Binomial Expansion	https://www.mathsgenie.co.uk/as-pure-algebraic-expressions.html	https://www.mathsgenie.co.uk/resources/as-pure-binomial-expansion.pdf
2	Factorisation – factor theorem/Division	https://www.mathsgenie.co.uk/as-pure-algebraic-expressions.html	https://www.mathsgenie.co.uk/resources/as-pure-algebraic-expressions.pdf
3	Differentiation	https://www.mathsgenie.co.uk/as-pure-differentiation.html	https://www.mathsgenie.co.uk/resources/as-pure-differentiation.pdf
4	Velocity	https://www.mathsgenie.co.uk/as-mechanics-and-statistics-kinematics.html	https://www.mathsgenie.co.uk/resources/as-mechanics-suvat.pdf
5	Acceleration	https://www.mathsgenie.co.uk/as-mechanics-and-statistics-kinematics.html	https://www.mathsgenie.co.uk/resources/as-mechanics-velocity-time-graphs.pdf
6	Sampling methods	https://www.mathsgenie.co.uk/as-mechanics-and-statistics-sampling-and-hypothesis-testing.html	https://www.mathsgenie.co.uk/resources/as-stats-sampling.pdf
7	Location and spread	https://www.mathsgenie.co.uk/as-mechanics-and-statistics-data.html	https://www.mathsgenie.co.uk/resources/as-stats-interpolation-and-standard-deviation.pdf
8	Probability	https://www.mathsgenie.co.uk/as-mechanics-and-statistics-probability.html	https://www.mathsgenie.co.uk/resources/as-stats-probability.pdf

Further Maths			
Ref	Key Knowledge	Next steps	
		Video	Questions
1	Volumes of Revolution	https://www.youtube.com/watch?v=I0q4L6YZMPk&list=PL0SSkmc4r_BaNhg_a5DGwnN7IFWYB4ft8	https://www.madasmaths.com/archive/maths_booklets/standard_topics/integration/integration_volume_of_revolution.pdf
2	Matrices	https://www.youtube.com/watch?v=uP_PekH7y110&list=PL0SSkmc4r_BZJW_TiqEIC8_BGNpxVE-gjE	https://www.madasmaths.com/archive/maths_booklets/further_topics/linear_algebra/matrices_exam_questions_part_a.pdf
3	Linear Transformations	https://www.youtube.com/watch?v=i3lr_QzPB4iA&list=PL0SSkmc4r_BZoFwM_Kd3921VPgzEIDy-R2	https://www.madasmaths.com/archive/maths_booklets/further_topics/linear_algebra/matrices_exam_questions_part_b.pdf
4	Proof by induction	https://www.youtube.com/watch?v=0eVemGnb5is&list=PL0SSkmc4r_BZoF_Ds2NePy1kzQAqdKWU5y	https://www.madasmaths.com/archive/maths_booklets/further_topics/various/proof_by_induction.pdf
5	Complex Loci	https://www.youtube.com/watch?v=Y0DWW50BJvc&list=PL0SSkmc4r_Bb50h0XWx1WTKAmDK8hLdDu	https://www.madasmaths.com/archive/maths_booklets/further_topics/various/complex_numbers_part_2_exam_questions.pdf
6	Vectors	https://www.youtube.com/watch?v=rOssZkVg5KU&list=PL0SSkmc4r_BbrEP3ZWnXICwmEztqk7j6y	https://www.madasmaths.com/archive/maths_booklets/further_topics/linear_algebra/vector_exam_questions_part_a.pdf



Physics		
Ref	Key Knowledge	Next Steps
1	Progressive waves	Seneca - Learn 2x Faster (senecalearning.com)
2	Polarisation	Seneca - Learn 2x Faster (senecalearning.com)
3	Diffraction gratings	Seneca - Learn 2x Faster (senecalearning.com)
4	Young's 2 slit experiment	Seneca - Learn 2x Faster (senecalearning.com)
5	Projectile motion	Seneca - Learn 2x Faster (senecalearning.com)
6	Personalised content from 1 st assessment	

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Psychology		
Ref	Key Knowledge	Next Steps
1	The multi-store model of memory, including features of each store: coding, capacity and duration.	https://www.tutor2u.net/psychology/topics/multi-store-model-of-memory Microsoft teams, Y12 Psychology 2021-2023, files, class materials, Memory
2	The working memory model, including features of the model	https://www.tutor2u.net/psychology/reference/working-memory-model Microsoft teams, Y12 Psychology 2021-2023, files, class materials, Memory
3	Types of long-term memory: episodic, semantic, procedural.	https://www.youtube.com/watch?v=mI9QVQRyzOk Microsoft teams, Y12 Psychology 2021-2023, files, class materials, Memory
4	Explanations for forgetting: proactive and retroactive interference and retrieval failure due to absence of cues.	https://www.tutor2u.net/psychology/reference/proactive-and-retroactive-interference https://www.tutor2u.net/psychology/reference/retrieval-failure-due-to-absence-of-cues Microsoft teams, Y12 Psychology 2021-2023, files, class materials, Memory
5	Factors affecting the accuracy of eyewitness testimony: misleading information, including leading questions and post-event discussion; anxiety.	https://www.tutor2u.net/psychology/reference/misleading-information-in-eye-witness-testimony-ewt https://www.youtube.com/watch?v=-hha1bAtV5c https://www.youtube.com/watch?v=dqn5skNmi14 Microsoft teams, Y12 Psychology 2021-2023, files, class materials, Memory
6	Improving the accuracy of eyewitness testimony, including the use of the cognitive interview	https://www.tutor2u.net/psychology/reference/cognitive-interview Microsoft teams, Y12 Psychology 2021-2023, files, class materials, Memory
7	Caregiver-infant interactions in humans: reciprocity and interactional synchrony. Stages of attachment identified by Schaffer. Multiple attachments and the role of the father.	https://www.tutor2u.net/psychology/collections/a-level-psychology-study-notes-attachment Microsoft teams, Y12 Psychology 2021-2023, files, class materials, Attachment
8	Animal studies of attachment: Lorenz and Harlow.	https://www.tutor2u.net/psychology/collections/a-level-psychology-study-notes-attachment Microsoft teams, Y12 Psychology 2021-2023, files, class materials, Attachment
9	Explanations of attachment: learning theory and Bowlby's monotropic theory. The concepts of a critical period and an internal working model.	https://www.tutor2u.net/psychology/collections/a-level-psychology-study-notes-attachment Microsoft teams, Y12 Psychology 2021-2023, files, class materials, Attachment
10	Ainsworth's 'Strange Situation'. Types of attachment: secure, insecure-avoidant and insecure-resistant. Cultural variations in attachment, including van Ijzendoorn.	https://www.tutor2u.net/psychology/collections/a-level-psychology-study-notes-attachment Microsoft teams, Y12 Psychology 2021-2023, files, class materials, Attachment
11	Bowlby's theory of maternal deprivation. Romanian orphan studies: effects of institutionalisation.	https://www.tutor2u.net/psychology/collections/a-level-psychology-study-notes-attachment Microsoft teams, Y12 Psychology 2021-2023, files, class materials, Attachment
12	The influence of early attachment on childhood and adult relationships, including the role of an internal working model.	https://www.tutor2u.net/psychology/collections/a-level-psychology-study-notes-attachment Microsoft teams, Y12 Psychology 2021-2023, files, class materials, Attachment

(To access files marked "VLE Link" please log in to the Maricourt VLE)



Sociology		
	Key Knowledge	Next Steps
1	Role and functions of the family according to perspectives	https://www.tutor2u.net/sociology/collections/families-and-households-student-revision-videos (Functions of the family and the economy videos)
2	Changing patterns of marriage, cohabitation, separation, divorce	https://www.tutor2u.net/sociology/collections/families-and-households-student-revision-videos (Changing patterns of family and family diversity videos)
3	Changing family patterns including child-bearing and the life course	https://www.tutor2u.net/sociology/collections/families-and-households-student-revision-videos (Changing patterns of family and family diversity videos)
4	Gender roles and domestic division of labour	https://www.tutor2u.net/sociology/collections/families-and-households-student-revision-videos (Gender roles and relationships videos)
5	Power relationships within the family in contemporary society, focusing on the inequality	https://www.tutor2u.net/sociology/collections/families-and-households-student-revision-videos (Gender roles and relationships videos)
6	Quantitative and qualitative methods of research	https://www.tutor2u.net/sociology/reference/research-methods-in-sociology-quantitative-and-qualitative-methods
7	The distinction between primary and secondary data	Microsoft teams, Y12 Sociology 2021-2023, files, class materials, research methods
8	Stages in planning research including sampling and conduct	Microsoft teams, Y12 Sociology 2021-2023, files, class materials, research methods
9	Theoretical, practical and ethical issues affecting choice of research method and topic	https://www.tutor2u.net/sociology/reference/practical-ethical-and-theoretical-issues-in-sociological-research https://www.tutor2u.net/sociology/reference/research-methods-choice-of-topic-and-methods
10	Sources of data including experiments, questionnaires, observations, interviews, documents and official statistics	https://www.tutor2u.net/sociology/collections/theory-methods-student-revision-videos (Research Methods in detail videos)
11	The relationship between positivism, interpretivism and sociological methods	https://www.tutor2u.net/sociology/reference/research-methods-positivism https://www.tutor2u.net/sociology/reference/research-methods-interpretivism



Spanish		
	Key Knowledge	Next Steps
1	Understanding and describing how young people in Spain respond to modern technology	https://app.memrise.com/course/6130858/lesson-1-los-jovenes-y-la-nueva-tecnologia/ https://app.memrise.com/course/6133249/lesson-2-jovenes-y-tecnologia/
2	Understanding and describing youth trends in Spain	https://app.memrise.com/course/6138112/lesson-3-jovenes-y-los-riesgos-de-la-red/ https://app.memrise.com/course/6147347/lesson-4-and-5-la-moda-y-los-jovenes/
3	Understanding and describing personal relationships and peer pressure	https://app.memrise.com/course/1028220/la-amistad-6/ https://app.memrise.com/course/1427497/el-mundo-de-la-moda/
4	Understanding and describing the education system and student issues in Spain	https://app.memrise.com/course/5670317/educati-on-and-work/ https://app.memrise.com/course/5670347/educati-on-and-work-2/ https://app.memrise.com/course/5670317/educati-on-and-work/
5	Understanding and describing the current training and employment scene in Spain	https://app.memrise.com/course/5676752/los-trabajos-1-workbook/ https://app.memrise.com/course/5676754/los-trabajos-2-workbook/ https://app.memrise.com/course/6162136/jovenes-con-ganas-de-trabajar/
6	Understanding and describing the positives and negatives of aspects of jobs in Spain	https://app.memrise.com/course/6165417/ojala-me-renueven-el-contrato/ https://app.memrise.com/course/6165418/la-igualdad-de-genero-en-el-mundo-laboral/ https://app.memrise.com/course/1697974/la-generacion-perdida/
7	Grammar: the subjunctive mood: how to form it and how to use it	https://app.memrise.com/course/1300015/formatio-n-subjunctive-y12/ https://app.memrise.com/course/1303210/los-usos-del-subjuntivo/ https://app.memrise.com/course/2077889/weirdo-y-demas/



Sport Sgl		
Ref	Key Knowledge	Next Steps
1	Structure, function, and effects of exercise on the skeletal system	Knowledge organisers Unit 1 Revise BTEC National Sport Units 1 and 2 Revision Guide/ Workbook BTEC Nationals Sport Student Book p4-18
2	Structure, function, and effects of exercise on the muscular system	Knowledge organisers Unit 1 Revise BTEC National Sport Units 1 and 2 Revision Guide/ Workbook BTEC Nationals Sport Student Book p18-28
3	Structure, function, and effects of exercise on the respiratory system	Knowledge organisers Unit 1 Revise BTEC National Sport Units 1 and 2 Revision Guide/ Workbook BTEC Nationals Sport Student Book p28-36
4	Structure, function, and effects of exercise on the cardiovascular system	Knowledge organisers Unit 1 Revise BTEC National Sport Units 1 and 2 Revision Guide/ Workbook BTEC Nationals Sport Student Book p36-48
5	Effects of exercise on the energy systems	Knowledge organisers Unit 1 Revise BTEC National Sport Units 1 and 2 Revision Guide/ Workbook BTEC Nationals Sport Student Book p48 onwards



6	The principle of fitness testing	<p>Knowledge organisers Unit 5 BTEC Nationals Sport Student Book p 213-251 <u>Books</u> American College of Sports Medicine – ACSM’s Guidelines for Exercise Testing and Prescription, 7th edition (Lippincott Williams and Wilkins, 2005) ISBN 9780781745901 American College of Sports Medicine – ACSM’s Health-Related Physical Fitness Assessment Manual (Lippincott Williams and Wilkins, 2007) ISBN 9780781775496 Coulson M – The Fitness Instructor’s Handbook: A Complete Guide to Health and Fitness – Fitness Professionals (A&C Black, 2007) ISBN 9780713682250 Franks B D and Howley E T – Fitness Leader’s Handbook (Human Kinetics Europe, 1998) ISBN 9780880116541 Hazeldine R – Fitness for Sport (The Crowood Press, 2000) ISBN 9781861263360 Heyward V H – Advanced Fitness Assessment and Exercise Prescription (Human Kinetics, 2006) ISBN 9780736057325 Howley E T and Franks B D – Health Fitness Instructor’s Handbook (Human Kinetics Europe, 2003) ISBN 9780736042109 Powers S K and Howley E T – Exercise Physiology: Theory and Application to Fitness and Performance (McGraw Hill Higher Education, 2006) ISBN 9780071107266 Sharkey B J and Gaskill S E – Fitness and Health (Human Kinetics, 2006) ISBN 9780736056144 Skinner J – Exercise Testing and Exercise Prescription for Special Cases: Theoretical and Clinical Applications (Lippincott Williams and Wilkins, 2005) ISBN 9780781741132 Watson A W S – Physical Fitness and Athletic Performance: A Guide for Students, Athletes and Coaches (Longman, 1996) ISBN 9780582091108</p>
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Sport Dbl		
Ref	Key Knowledge	Next Steps
1	The different psychological skills that could be used to improve performance.	Adams M et al – BTEC Level 3 National Sport (Performance and Excellence) Student Book (Pearson, 2010) ISBN 9781846906510 Cox R – Sport Psychology: Concepts and Applications 6th Edition (McGraw-Hill, 2007) ISBN Weinberg R S and Gould D – Foundations of Sport and Exercise Psychology 4th Edition (Human Kinetics, 2007) British Association of Sport and Exercise Sciences www.bases.org.uk Mind Tools www.mindtools.com
2	The production of a psychological skills training programme with a range of techniques that could be used to improve performance.	Adams M et al – BTEC Level 3 National Sport (Performance and Excellence) Student Book (Pearson, 2010) ISBN 9781846906510 Burton D and Raedeke T D – Sport Psychology for Coaches (Human Kinetics, 2008) ISBN 9780736039864 BBC Sport www.bbc.co.uk/sport British Association of Sport and Exercise Sciences www.bases.org.uk Mind Tools www.mindtools.com
3	Qualities of skilled performers and how abilities contribute to the production of sports skills.	Brian Mac, Sports Coach www.brianmac.co.uk British Association of Sport and Exercise Sciences www.bases.org.uk British Broadcasting Corporation www.bbc.co.uk Top End Sports www.topendsports.com Unit 23- Book 2 Pearson BTEc National Sport
4	The effectiveness of information processing models in showing how sports performers produce skilled performance.	Brian Mac, Sports Coach www.brianmac.co.uk British Association of Sport and Exercise Sciences www.bases.org.uk Peak Performance www.pponline.co.uk Top End Sports www.topendsports.com Unit 23- Book 2 Pearson BTEc National Sport
5	Technical skills and tactical components of sport that contribute to effective performance	Remote Learning Year 12 BTEC Nationals Sport Knowledge Organiser Unit 26 BTEC Nationals Sport Student Book p 384-408 Expert (2011), <i>How to Play Badminton – Including Official Rules</i> (Foulsham's Sports Library), Read Books, ISBN 978 1 44742 668 4. Gledhill, A., et al. (2016), <i>BTEC Nationals Sport Student Book 1</i> , Pearson Education, ISBN 9781292134000. Hinkson, J. and Lombardi, J. (2011), <i>Lacrosse For Dummies</i> , 2nd edition, Wiley Publishing, ISBN 978 0 47073 855 9.