Logical and sequenced acquisition of knowledge to enable all students to know more, do more and remember more	Substantive knowledge (what/topics/key content) versus Disciplinary and/or procedural knowledge (how, methods & skills)	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
	All students know and understand		Use line expressively; Record tone and detail using ink and wash; Use a camera to record observations relevant to intentions; Use Photo editing to enhance images; Record and evidence assessment objectives in sketchbook.	artist; Materials, techniques and processes involved in oil painting; Ways to respond to the work of their chosen artist; Development of ideas in response to studied artists;	independently selecting relevant artists and contextual links to develop ideas; Independently experimenting with appropriate materials, techniques and processes;	PPE Preparation by independently selecting relevant artists and contextual links to develop ideas; Independently experimenting with appropriate materials, techniques and processes; Reviewing and refining ideas and skills as they develop.	Year 10 PPE – Realisation of intentions; Independently experimentation with appropriate materials, techniques and processes; Reviewing and refining of ideas and skills as they develop; Planning and execution of a refined outcome.
Art	All students know how to	etching.	Use mark making to record tone and detail in etching; Experiment with a range of printing techniques and evaluate the success of outcomes.	present in sketchbook; Mix and apply oil paint; Present a meaningful response to their chosen artist; Present ideas clearly in their sketchbooks; Select appropriate materials,	ideas; Present ideas and insights in sketchbook; Experiment with appropriate materials, techniques and processes; Evaluate and refine work as a result; Present work showing a clear development	Research relevant artist and contextual links to develop ideas; Present ideas and insights in sketchbook; Experiment with appropriate materials, techniques and processes; Evaluate and refine work as a result; Present work showing a clear development of ideas and skills.	Experiment with appropriate materials, techniques and processes; Evaluate and refine work as a result; Present work showing a clear development of ideas and skills; Produce an ambitious and refined outcome that realises the intentions of the project.

Logical and sequenced acquisition of knowledge to enable all students to know more, do more and remember more	Substantive knowledge (what/topics/key content) versus Disciplinary and/or procedural knowledge (how, methods & skills)	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
	All students know and understand	vascular and respiratory systems in animals as well as the importance of the leaf and stem in plants.	The key differences between types of named diseases, how the human body defends itself against disease and preventive measure/treatments for communicable diseases.	and the impacts of drugs and exercise on health in the	The key factors that affect photosynthesis; aerobic and anaerobic respiration in different organisms.	Key adaptations of organisms within an ecosystem and the importance of their niche within the environment; the importance of the carbon and water cycles in an ecosystem for recycling materials.	The process of the greenhouse effect and why climate change is becoming an ever increasing issue in terms of ecosystem disruption.
Biology		transpiration from a plant	Investigate the effectiveness of a variety of antibiotics on bacterial growth using aseptic techniques.	the significance of a correlation and evaluate whether is confirms the existence of a causal link.	Design an experiment to calculate the rate of photosynthesis in plants; Investigate an estimate the rate of fatigue in muscles during exercise and explain the links to anaerobic respiration.	Perform investigations using quadrats via random sampling and transects to collect data about the effects of biotic and abiotic factors in the environment; Design an investigation to explore how temperature affects the rate of decay of a substance such as milk.	Apply principles of food chains and webs in unfamiliar situations to describe the relationships within an ecosystem.

Logical and sequenced acquisition of knowledge to enable all students to know more, do more and remember more	Substantive knowledge (what/topics/key content) versus Disciplinary and/or procedural knowledge (how, methods & skills)	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Business	All students know and understand	ideas come about, the impact of risk and reward on business activity and the role and purpose of business enterprise and entrepreneurship; How a range of factors impact on the success of their start-up business ideas, including forms of ownership and limited	identify opportunities through understanding customer needs and conducting market research; How businesses use market segmentation to target customers and adapt to the competitive environment; How a range of factors impact on the success of their start-up	practice through setting business aims and objectives, calculating and interpreting revenue, costs, profit and cashflow, explaining the importance of cash and sources of finance available; How a	How to put a business idea into practice, the importance of cash and sources of finance available; How a range of factors impact on the success of their start-up business ideas, including the business plan.	which are outside of the immediate control of the business, such as stakeholders,	All Theme 1 content ahead of EOY assessment; Methods of business growth and their impact, Public Limited Companies and sources of finance for growing and established businesses.
		and 3-mark questions based on content from section 1.1.	discuss questions based on content from section 1.1 and	style answers; Structure an answer to 6- mark analyse questions based on content from section 1.1-1.3.	Structure an answer to 9- mark justify questions based on content from section 1.1-1.3; Calculate percentages, percentage change, revenue, costs, profit, cash-flow and break-even.	Answer all Section A and B style questions in Paper 1.	Present their start-up business ideas exploring how a range of factors impact on its success, including forms of ownership, business location, the marketing mix and the business plan.
Chemistry	All students know and understand	The bonding, struture and reactions of hydrocarbons and their importance to the modern world.	are transformed into the	Quantitative analysis to determine the formulae of compounds and the equations for reactions.	How important resources from the Earth are extracted.	How the rate of chemical reactions can be measured and the factors tha affect them.	How the rate of chemical reactions can be measured and the factors tha affect them.
		Appreciate the power and limitations of science and consider any ethical issues which may arise.	separate chemical mixtures including evaporation, distillation.	diagrammatic, graphical,	Use the appropriate apparatus and techniques to draw, set up and use electrochemical cells for separation and production of elements and compounds.	Make and record appropriate observations during chemical reactions including the measurement of rates of reaction by a variety of methods such as production of gas and colour change.	Make and record appropriate observations during chemical reactions including the measurement of rates of reaction by a variety of methods such as production of gas and colour change.

All students know and understand  All students know how to  The expectations of working methods in GCSE Drama; How to fa C1 portfolio, with detail in part 1; Appropriate devising methods, relevant to chosen practitioner.  Apply knowledge and understanding when making, performing and responding to short pieces of drama; Develop a range of theatrical skills and apply them to create performances; Work collaboratively to generate, develop and communicate ideas; Develop as creative, effective, independent and reflective learners able to make informed choices in de;  The presentation and content of the later portfolio sessions; The content of the later portfolio sessions; The tact, Semiotics and exploration of Theme in Set Text.  Drama  The presentation and content of the later portfolio sessions; The shape of an evaluation.  The presentation and content of the later portfolio sessions; The tact, Semiotics and exploration of Theme in Set Text.  Apply knowledge and understanding when making, performing and responding to short pieces of drama; Develop a range of theatrical skills and apply them to create performances; Work collaboratively to generate, develop and communicate ideas; Develop as creative, effective, independent and reflective learners able to make informed choices in de;  Apply knowledge and understanding when making, performing and responding to drama; Explore social, cultural and historical context including the social, cultural and historical context including the theatrical conventions of the period the play was created; Work individually to develop and communicate ideas; Develop as creative, effective, independent and reflective learners able to make informed choices in de;  Apply knowledge and understanding when making, performing and responding to drama; Explore social, cultural and historical context including the heatrical conventions of the period the play was c	Logical an sequenced acquisition knowledge enable al students t know more, more and remember m	Substantive knowledge (what/topics/key content) versus Disciplinary and/or procedural knowledge (how, methods & skills)	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Contribute as an individual to a theatrical performance; Adopt Contribute as an individual to a theatrical performance; Adopt Contribute as an individual to a safe working practices. Make informed choices in planning a performance collaboratively to generate, process and performance; performance. Collaboratively to generate, process and performance.	Drama	understand	The expectations of working methods in GCSE Drama; How to devise with a group in the style of Emma Rice; How to review a performance.  Apply knowledge and understanding when making, performing and responding to short pieces of drama; Develop a range of theatrical skills and apply them to create performances; Work collaboratively to generate, develop and communicate ideas; Develop as creative, effective, independent and reflective learners able to make informed choices in devising; Contribute as an individual to a theatrical performance; Adopt	The presentation and content of a C1 portfolio, with detail in part 1; Appropriate devising methods, relevant to chosen practitioner.  Apply knowledge and understanding when making longer pieces of devised drama; Develop a range of theatrical skills and apply them to create performances; Work collaboratively to generate ideas; Develop as creative, effective, independent and reflective learners able to make informed choices in de; Contribute as an individual to a theatrical performance; Adopt	performance; The content of the later portfolio sessions; The approach a public performance; The shape of an evaluation.  Apply knowledge and understanding when making, performing and responding to drama; Explore social, cultural and historical context including the theatrical conventions; Develop a range of theatrical skills and apply them to create performances; Work collaboratively to develop and communicate ideas; Develop as creative, effective, independent and reflective learners able to make informed choices in process and performance;	Use of character within the set text; Semiotics and exploration of Theme in Set Text; Audience response in Set Text.  Apply knowledge and understanding when responding to drama; Explore performance texts, including the social, cultural and historical context including the theatrical conventions of the period the play was created; Work individually to develop and communicate ideas' Develop as creative, effective, independent and reflective learners able to make informed choices in planning a	creation of a vision (the director's and designer's roles); The playwright's world; Original Performance Conditions; How to address questions in Component 3.  Apply knowledge and understanding when responding to drama; Explore performance texts, including the social, cultural and historical context including the theatrical conventions of the period the play was created; Work individually to develop and communicate ideas; Develop as creative, effective, independent and reflective learners able to make informed choices in	Apply knowledge and understanding when rehearsing, performing and responding to drama; Explore performance texts, understanding their social, cultural and historical context including the theatrical conventions of the period in which they were created; Develop a range of theatrical skills and apply them to create performances; Work collaboratively to generate,

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Computer Science	All students know and understand	The devices that allow computers to communicate; The purpose of a server in a network; Different ways a network can be set up (Clientserver, peer-to-peer, topologies	work; The rules of computer communication; What differentiates the cloud from an internal network; The need for encryption on the internet and why a substitution cipher is not good enough; Different types of	Different types of malicious software and how to combat them; The types of attacks that can be carried out via a computer system/through a computer system; The basic programming concepts (Variables, data structures, operators and selection).	The uses of iteration when programming; What a Trace Table is; Libraries, procedures and functions as subprograms.	a problem that lends itself to being solved by a computer; How	How to plan a program; How to create a program, based on a plan; What makes a programming project successful and how to measure the success.
	All students know how to	the benefits and drawbacks of a Star/Mesh network; Explain how different types of servers used in a business; Evaluate	and a network and explain what makes them similar; Define the	Define malicious software and the examples of malware; Describe which threat prevention method will help against a given attack; Evaluate which threat is the most likely in a given scenario; Create programs that include the simple programming concepts.	Complete a Trace Table based on a pre-written program; Manipulate data structures and Strings when programming; Write SQL queries.	Use a brief to create a program.	Use a brief to create a program; Evaluate their program.
DΤ	All students know and understand	EMTUD; Environmental and sociological impact.	New and emerging technologies; Energy generation and storage; Systems approach; Sources and origins; Using and working with materials.	Mechanical devices; Investigating primary and secondary sources; The work of others; Stock forms; Scales of production; Health and safety.	Drawing and rendering skills; Client profile; Specification; Design ideas and range of design skills; Modelling skills; Cutting lists.	Developing a design; Iterative design and make process.	Task analysis; Client profile; Immersion testing; Product analysis; Other relevant research; Brief; Specification.
	All students know how to	Create an occasional table using more complex timber skills and design; Copper bowl, planishing and tin snip cutting, annealing and soldering, piercing and enamelling.	tenon; Laser cutter use with	Carry out a Mini NEA; Complete a task analysis, client profile and moodboard	Write a specification; Design in a range of skills; Model to size; Create a cutting list; Make the cruet set	Practical making for a mini NEA	Create a portfolio; Analyse and evaluate information

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English	All students know and	Plot, characters and themes of 'Romeo and Juliet'; Context of Shakespeare's theatre, life, Elizabethan England, Petrarch, gender roles in patriarchal society, Italian Renaissance history; Genre of Tragedy in the theatre; Shakespeare's use of lambic Pentameter, sonnet form, rhyming couplets and prose; Relevant subject terminology.	How to answer questions 1-4 of section A); Terminology used in connection with writer's craft	Love and Relationships Anthology; Relevant context: social and biographical; The	Relevant context (both social, geographical, historical and biographical); The author's use	The conventions and construction of a good speech; The conventions of effective public speaking; The detail of a complex area of research that they have chosen.	The conventions and construction of a good speech; The conventions of effective public speaking; The detail of a complex area of research that they have chosen.
	All students know how to	Select useful quotes; Analyse the language, form and structure of a play; Write PEAL paragraphs that incorporate analysis of context and language; Answer extract questions that incorporate analysis of an extract and the play as a whole.	Identify implicit and explicit information; Analyse words and phrases, language features and techniques and sentence forms; Analyse the structure of a prose extract and its impact; Evaluate writer's craft; Write creatively either descriptive or narrative.	Select useful quotations.	paragraphs that incorporate analysis of context and language; Answer extract questions that incorporate analysis of an extract and the	Research a complex area of study in close detail; Select an effective range of material: both individual stories and key facts; Present a speech before an audience in an entertaining and engaging manner; Ask relevant questions in a formal setting; Respond to questions in a formal setting.	study in close detail; Select an

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Food & Nutrition		eating recommendations; Proteins – sources, functions,	healthy eating guidelines; The science of how fat is used in Shortening; Cereals – processing, functions, science of bread making; Processing of pasta & rice; The science of carbohydrates in cooking; The	microorganisms; Food hygiene and Safety controls to reduce contamination; Food preservation – methods, benefits, disadvantages; Food packaging – materials, labelling required by law.	agents and the effect of cooking on food (chemical, biological, physical); Eggs and poultry - structure, farming, nutrition, functions in cooking; Butter, oils & syrups – examples and	The process of an NEA 1 – Food Science Investigation project; Vegetarian and vegan diets – reasons, foods available, nutritional advice.	Primary and secondary processing of different food commodities -dairy and milk foods, cheese and yoghurt, meat & poultry , Fish; Food provenance – recapping sustainability issues linked with food security, insecurity.

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Food & Nutrition	All students know how to	peeling, fruit and vegetable preparation; Use of the hob – multi tasking (dovetailing) two	method and how it is affected by using different fats to make shortcrust pastry; Make choux pastry into profiterole and éclair shapes; Team working.	(introduction); Research and justify a recipe, develop it & create a suitable time plan to make it; Develop the flavour and shape of a bread roll; Combine recipes for bolognaise, roux sauce and fresh pasta to dovetail into a Lasagne (high skills); Whisk egg whites to make meringue kisses; Combine shortcrust pastry, sauce (lemon curd) and meringue to make a	Combine shortcrust pastry and creaming method to make Bakewell tart (medium skill); Design and make a Quiche (Medium skill); Shape and coating to make Scotch Eggs (Medium Skill); Develop sauce making – Mayonnaise (High	up; Complete 2 food science investigation recipes; Complete a medium / high skill recipe and present it; Research a task; Apply food science knowledge; Plan a practical investigation using	Portion a whole chicken or

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French	All students know and understand	Vocabulary to describe self, family and friends & relationships; The conjugation and use of present, near future, perfect and imperfect tenses in this context; Use irregular and reflexive verbs in the present tense.	activities (sport, technology, reading, TV/cinema); The use of DEPUIS, the comparative, conjugation and use of	EN, VENIR DE + infinitive and the use and conjugation of multiple tenses.	there is to see and do; the use of the pronoun Y, negative structures and interrogative adjectives; The use of weather structures in present and future tenses; Vocabulary and grammatical structures to describe community projects using 3 time frames.	ILS/ELLES in a range of verbs; Vocabulary to discuss school rules using IL FAUT/IL EST INTERDIT DE + infinitive,	Vocabulary to discuss jobs, career choices and work preferences using LE MEILLEUR/LE PIRE and to talk about future plans/hopes/wishes; Recognize the subjunctive; The formation and use of direct object pronouns in the perfect tense.
	All students know how to	complex language and structures; Complete listening assessment covering a range of question types (multiple choice, T/NM,	familiar topic; Complete	range of complex language and structures; Complete listening assessment covering a	Describe and discuss a photo card in 3 time frames; Complete reading assessment covering a range of question types (multiple choice, T/NM, written answer, etc.); Translate a passage covering 3 time frames from English-TL and one from TL-English.	Hold a 4-5 minute conversation on a range of topics covered recently, using 3 time frames (included in EOY).	Complete listening & reading assessment covering a range of question types (multiple choice, T/NM, written answer, etc.); Write a 90 and 150 word task using 3 time frames and a range of complex language; Translate a passage covering 3 time frames from English-TL and one from TL-English.

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	All students know and understand	Plate tectonic theory; Physical processes taking place at types of plate margin; Primary and secondary impacts of earthquakes; Two case studies - one LIC and one HIC; the responses, mitigation methods and why people choose to live near such places.		Megacities; urbanization; Lagos - a case study exploring the formation, challenges and opportunities of this megacity.	exploring the formation, challenges and opportunities in this HIC urban area; regeneration in Liverpool; sustainable cities.	The foundational basics of fluvial systems including processes and landforms; the ways in which river characteristics change downstream; Case studies are the River Tees and River Thames.	The foundational basics of coastal systems including processes and mass movement/weathering; the ways in which we are able to manage coastal erosion including hard eng. soft eng. and managed retreat; Appropriate case studies.
Geography		Engage with the AQA examination questions from Paper 1; Apply the PDL structure to present increasinly sophisicated geographical arguments.	Paper 1; Apply the PDL structure to present increasingly sophisticated	structure to present increasingly sophisticated	Paper 2; Apply the PDL structure to present increasingly sophisticated	Engage with the AQA examination questions from Paper 1; Apply the PDL structure to present increasingly sophisticated geographical arguments.	Engage with the AQA examination questions from Paper 1; Apply the PDL structure to present increasingly sophisticated geographical arguments.

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German	All students know and understand	Article declension & adjective endings with the accusative case; The perfect tense to describe primary school; Coordinating & subordinating conjunctions; Modal verbs and in + dative case to describe school rules; The German	activities (TV/cinema, reading, sport); Accurate word order; Adverbs GERN, LIEBER & AM LIEBSTEN to give opinions; SEIT to say how long you've been doing an activity; Forming plurals; The perfect tense to describe a recent free-time activity; The conditional to describe a sport you'd like to	relationships; Adjective endings in the nominative and accusative case; Reflexive and separable verbs; Mit + dative; Pronouns in dative case; Future and conditional; Dual-case prepositions (accusative); Modal verbs in the imperfect tense.	town/village and what their is	Vocabulary to discuss social media and technology (usage, advantages and disadvantages); Wenn; Advantages of social media and technology; Complex opinions with dass; Vocabulary to describe a holiday (destination, mode of transport and accomodation; Comparatives and superlatives.	Vocabulary to discuss different types of holidays and preferences; Weather conditions using all 3 tenses; The perfect and pluperfect tense to describe a past holiday; The future tense and infinitive constructions using zu to discuss future holiday plans; The imperative to give and understand directions; Vocabulary to buy clothes/souvenirs.
	All students know how to	complex language and structures; Complete listening assessment covering a range of question types (multiple choice, T/NM, written answer, etc.).	familiar topic; Complete reading assessment covering a range of question types (multiple choice, T/NM, written answer, etc.); Translate a	complex language and structures; Complete listening assessment covering a range of question types (multiple choice, T/NM, written answer, etc.).	Describe and discuss a photo card in 3 time frames; Complete reading assessment covering a range of question types (multiple choice, T/NM, written answer, etc.); Translate a passage covering 3 time frames from English-TL and one from TL-English.	Hold a 4-5 minute conversation on a range of topics covered recently, using 3 time frames (included in EOY).	Complete listening & reading assessment covering a range of question types (multiple choice, T/NM, written answer, etc.); Write a 90 and 150 word task using 3 time frames and a range of complex language; Translate a passage covering 3 time frames from English-TL and one from TL-English.

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	All students know and understand	impacted by the economic growth; The divide in American society considering the Red Scare, Prohibition and growth in	economy and the nations experiences during the Great Depression, Roosevelt's New Deal era and the involvement and impact of WW2 for America.	consumerism, the American Dream, McCarthyism, racial divisions and the Civil Rights movement, the feminist movement and the 'Great Society'.	The origins of the Cold War, considering how the Grand Alliance broke down and tension developed between the two superpowers between 1945-49; The development of the Cold War, considering the significance of events in Asia, military rivalries, and the 'Thaw'.		The causes of disease and how this has developed over time; The concept of change and continuity throughout; How treatment of disease has developed over time, considering change and continuity.
History	All students know how to	examination questions from Paper 1, Section A; Develop analysis of historical interpretations, analysis of historical change within a period and evaluation of	Engage with the AQA examination questions from Paper 1, Section A; Develop analysis of historical interpretations, analysis of historical change within a period and evaluation of historical significance.	examination questions from Paper 1, Section A; Develop analysis of historical interpretations, analysis of historical change within a period and evaluation of historical significance.	content and provenance; Understand and analyse cause and consequence in a	and consequence in a chronological narrative and evaluation of historical	Engage with the AQA examination questions from Paper 2, Section A; Analyse source utility, explain the significance of a historic development, analyse and explain similarities of two different developments and evaluate historical significance of events, reaching a sustained judgement

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Maths	All students know and understand	Graphs are used to represent relationships between variables; Inequalities represent a range of possible solutions.	event occurring; Shapes can be transformed and different	Quadratic equations can be solved in a variety of ways; Ratio, proportion and rates of change.	values; Units and measures used in calculations.	Further Trigonometry can be used to calculate missing lengths and angles in any triangle; Recognise similar shapes and congruence.	Further Statistics and how to use them to compare data.

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Maths	All students know how to	Draw linear graphs from a given equation; Find the gradient and y intercept from the equation; Find the gradient and y intercept from the graph and write down the equation of a line from its graph; Sketch a graph given its equation; Understand and recognise parallel lines and find the equation of a line parallel to a given line through a given point; Understand and recognise perpendicular lines and use the fact that their gradients have a product = -1; Find the equation of a line perpendicular to a give line through a given point. Find the equation of a line perpendicular to a give line through a given point; Find the equation of a line perpendicular to a give line through a given point; Find the equation of a line through two given points; Find the midpoint of a line segment; Understand and use a distance time graph to solve problems. That gradient represents speed and use the graph the find the speed of parts of the journey; Understand and use a velocity time graph; Use set notation to give the solution to a linear inequality.	and calculate associated probabilities; Complete and use a two-way table to calculate conditional probabilities; Use relative frequency to calculate experimental probability and use to estimate the number of times and outcome will happen; That the more times an experiment is repeated the more reliable the results are; Calculate the number of outcomes from combinations and the number of ways of listing a number of items; Use a frequency tree to record outcomes and calculate probabilities; Identify mutually exclusive outcomes; Calculate the probability for	Understand that the roots of an equation are the solutions to the	Solve simultaneous equations where one equation is a quadratic; Solve real-life situation	Understand and use Pythagoras' theorem in 2D; Solve problems, including angles of elevation and depression; Use trigonometry ratios in 2D, often referred to as SOHCAHTOA; Solve problems in 3D using Pythagoras' theorem and trigonometric ratios; The exact values of sin, cos, tan for 0, 30, 45, 60, 90; Draw the graph of the sine function. Understand the key features of the graphs, the symmetry and how there can be multiple solutions of sine for each angle; Draw the graph of the cosine function. Understand the key features of the graphs, the symmetry and how there can be multiple solutions of sine for each angle; Use the graph of the tangent function. Understand the key features of the graphs, the symmetry and how there can be multiple solutions of sine for each angle; Use the sine for each angle; Solve trig equations, using graphs, to find all solutions in range; Use the sine rule to find missing sides; Use the sine rule to find missing angles; Solve problems using the sine rule, including the ambiguous case for missing angles;	

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Maths	All students know how to	That gradient represents acceleration and area under the graph represents distance travelled; Interpret real life linear graphs; Interpret curved graphs e.g. filling bottles etc; Draw a quadratic graph from its equation, using a table of values; Solve a quadratic equation by reading the roots from the graph; Use a graph to solve a given equation by adding a straight line.; Draw a cubic graph given its equation, using a table of values; Recognise the key features of a cubic graph; Solve a cubic equation from the graph; Draw a reciprocal graph given its equation; Draw a circle graph given its equation; Recognise the key features of all the different graphs and match a sketch graph to its equation. Read an inequality from a number and illustrate an inequality on a number line; Include bounded inequalities; Solve a linear inequality and represent the solution on a number line; Solve bounded linear inequality and represent the solution on a number line.	Draw and use a probability tree diagram to calculate conditional probabilities; Construct a Venn diagram and understand set notation for a Venn diagram; Solve problems involving incomplete	proportion to solve simple direct proportion problems. Set up a direct proportion equation and use it; Link to the direct proportion graph; Understand and solve further direct proportion problems;	upper and lower bounds; Solve problems involving upper and lower bounds for area problems; Compound measures: Use a formal equation to calculate speed; Convert between measures of speed; Use the kinematics formulae to calculate displacement, velocity or acceleration; Use the density formula to solve problems and understand related unit; Use the	problems including three figure bearing problems; Calculate the area of a triangle using the 1/2absinC formula and solve related problems including the segment of a circle; Use Bounds in Pythagoras and Trigonometry. The conditions for congruence in triangles and show that two triangles	including completing a grouped frequency table and finding an estimate for the median and quartiles; Compare two or more distributions using a measure of spread and central tendency.

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Music	All students know and understand	including thriller, action,	How music works with images to create intense, exciting and moving films and games including comedy, science fiction, historical period, epic and western.	including Baroque, Classical and Romantic.	, , , , , , , , , , , , , , , , , , , ,	The conventions of African drumming and music from South America and the Indian subcontinent.	The conventions of music from the Mediterranean and Middle East.
	All students know how to	including developing	including developing knowledge, fluency and technical control on their respective instrument(s) or	including developing knowledge, fluency and	Compose to a brief set by themselves, including how to use a variety of compositional techniques appropriate to the style or genre.	techniques appropriate to the	Compose to a brief set by themselves, including how to use a variety of compositional techniques appropriate to the style or genre.

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Physical Education GCSE	All students know and	cardiorespiratory systems; The skills needed to perform a	Key terminology associated with the cardiorespiratory system; The short and long-term effects of exercise on the body systems; The skills needed to perform a trampolining routine that meets the assessment criteria.	The difference between aerobic and anaerobic exercise, and how the body caters for this; The positions and rules of netball; The assessment criteria needed within a game of netball.	with movement analysis: planes, axes and lever systems; The specific requirements of their own position in netball. The assessment criteria needed within a game of netball.	testing and types of training; The specific requirements of their own position in netball; The	Key terminology associated with types of training, injury prevention and seasonal aspects of training; The requirements of the coursework element.
		examples, considering the impact on performance;	Apply knowledge to sporting examples, considering the impact on performance; Link skills to form a 10 bounce routine.	Apply knowledge to sporting examples, considering the impact on performance; Apply skills to a fully competitive game of netball.	examples, considering the impact on performance; Apply skills to a fully competitive game of netball and display an awareness of tactical play.	performance; Apply skills to a fully competitive game of netball	Apply knowledge to sporting examples, considering the impact on performance; Analyse their skill strength and weakness and design a training programme to bring about improvements.

Logical and sequenced acquisition of knowledge to enable all students to know more, do more and remember more	Substantive knowledge (what/topics/key content) versus Disciplinary and/or procedural knowledge (how, methods & skills)	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Physical Education Core Tonbridge	All students know how to	terminology used when umpiring; The health and safety associated with Trampolining and the skills needed to form a routine; The rules and terminology associated with Hockey; Advanced dance and acrobatic skills and choreographic devices within the style of Broadway and Contemporary Dance.	Advanced dance and acrobatic skills and choreographic devices within the style of Broadway and Contemporary Dance; The skills needed to work as a team to successfully	The rules and terminology used in Rugby; The skills needed to work as a team to successfully overcome a variety of challenges; The rules and terminology used in Football; The benefits of regular physical activity and a range of fitness activities that contribute to a healthy, active lifestyle.	activity and a range of fitness activities that contribute to a healthy, active lifestyle; The basic	terminology used in Handball; The health and safety associated with Cheerleading and the basic skills required for stunting; The rules, tactics and scoring	The rules, tactics and scoring of Cricket; The basic rules and terminology used in Tennis; The rules, tactics and scoring of Rounders; The health and safety considerations associated with Athletics events.

Logical and sequenced acquisition of knowledge to enable all students to know more, do more and remember more	Substantive knowledge (what/topics/key content) versus Disciplinary and/or procedural knowledge (how, methods & skills)		Term 2	Term 3	Term 4	Term 5	Term 6
Physical Education Core Tonbridge	All students know how to	Umpire a game, highlighting when key rules have been broken and applying the relevant penalty; Demonstrate a range of shapes and landings with control and precision; Perform a 10-bounce routine using the skills they have learnt; Develop the Hockey skills they have previously learnt and apply them to a competitive situation; Perform a range of movement skills which they will use to develop a group routine	have previously learnt and apply them to a competitive situation; Perform a range of movement skills which they will use to develop a group routine in the style of The Greatest Showman; Work effectively as part of a team to complete a number of outdoor adventurous activities; Work effectively as part of a team to complete a number of outdoor adventurous activities; Develop the Rugby skills they have	have previously learnt and apply them to a competitive situation; Work effectively as part of a team to complete a number of outdoor adventurous activities; Perform basic skills within a stunt group and link them to make a short routine; Develop the Football skills they have previously learnt and apply them to a competitive	the best of their ability; Transfer their skills from other sports to be used in competitive Handball games; Perform basic skills within a stunt group and link them to make a short routine.	sports to be used in competitive Handball games; Demonstrate a range of shapes and landings with control and precision. Perform a 10-bounce routine using the skills they have learnt; Demonstrate a variety of bowling, fielding and batting skills within competitive situations to help their team	Demonstrate a variety of bowling, fielding and batting skills within competitive situations to help their team outwit their opponents; Perform basic Tennis skills within non-competitive and competitive situations; Demonstrate a variety of skills and tactics within Rounders and confidently umpire games; Perform advanced throwing/jumping/running techniques for each event; Measure and time accurately.

Logical and sequenced acquisition of knowledge to enable all students to know more, do more and remember more	Substantive knowledge (what/topics/key content) versus Disciplinary and/or procedural knowledge (how, methods & skills)	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Physical Education Core Sevenoaks	All students know how to	umpiring; The health and safety associated with Trampolining and the skills needed to form a routine; The benefits of regular physical activity and a range of fitness activities that contribute to a healthy,	associated with Hockey; The skills needed to work as a team to successfully overcome a variety of challenges; The rules and terminology used in Rugby; The health and safety associated with Cheerleading and the basic skills required for stunting.	and safety associated with Cheerleading and the basic skills required for stunting; The rules and terminology used in Football; The benefits of regular physical activity and a range of fitness activities that contribute to a healthy, active lifestyle.	The rules and terminology used in Football; The benefits of regular physical activity and a range of fitness activities that contribute to a healthy, active lifestyle; The basic rules and terminology used in Handball; Advanced dance and acrobatic skills and choreographic devices within the style of Broadway and Contemporary Dance.	The basic rules and terminology used in Handball; Advanced dance and acrobatic skills and choreographic devices within the style of Broadway and Contemporary Dance; The health and safety considerations associated with Athletics events.	The rules, tactics and scoring of Cricket; The basic rules and terminology used in Tennis; The rules, tactics and scoring of Rounders; The health and safety considerations associated with Athletics events.

Logical and sequenced acquisition of knowledge to enable all students to know more, do more and remember more	Substantive knowledge (what/topics/key content) versus Disciplinary and/or procedural knowledge (how, methods & skills)	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Physical Education Core Sevenoaks	All students know how to	skills and tactics in a fully competitive game of Netball; Umpire a game, highlighting when key rules have been broken and applying the relevant penalty; Demonstrate a range of shapes and landings with control and precision; Perform a 10-bounce routine using the skills they have learnt; Set up and complete a range of	they have previously learnt and apply them to a competitive situation; Work effectively as part of a team	they have previously learnt and apply them to a competitive situation; Perform basic skills within a stunt group and link them to make a short routine; Develop the Football skills they have previously learnt and apply them to a competitive situation; Set up and complete a range of training methods to the best of their ability.	and apply them to a competitive situation; Set up and complete a range of training methods to the best of their ability; Transfer their skills from other sports to be used in competitive Handball	competitive Handball games; Perform a range of movement skills which they will use to develop a group routine in the style of The Greatest Showman; Perform advanced throwing/jumping/ running techniques for each event; Measure and time accurately.	Demonstrate a variety of bowling, fielding and batting skills within competitive situations to help their team outwit their opponents; Perform basic Tennis skills within noncompetitive and competitive situations; Demonstrate a variety of skills and tactics within Rounders and confidently umpire games; Perform advanced throwing/jumping/running techniques for each event; Measure and time accurately.

Logical and sequenced acquisition of knowledge to enable all students to know more, do more and remember more	Substantive knowledge (what/topics/key content) versus Disciplinary and/or procedural knowledge (how, methods & skills)	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Physics	All students know and understand	the atom; Questions on atomic structure; Reasons for instability (Strong vs	Circuit symbols; Electrical charge and current; Current and voltage in series and parallel circuits; Resistance of a LDR and thermistor.	power; Electric fields and their	Introduce Newton's 1 and 3; Resolving forces; Practice vector diagrams; Resolution of forces; Moments, levers and gears.	time), vectors & velocity (displacement / time) and	Terminal velocity; Factors affecting braking distance; Momentum; Forces and elasticity.
	All students know how to	half-life equation to predict decay.	Demonstrate factors affecting resistance of a wire; Investigate resistance of series and parallel circuits; Solve equations; Solve problems involving series and parallel circuits.	diode, lamp and LDR; Solve	Log Newton's second Law data; Solve equations.	Analyse motion using light gates with an experiment or demo; Solve equations of motion.	Investigate Hooke's Law.
Religious Studies	All students know and understand	· ·		religious approaches to science and the sanctity of life.	Diverse Christian and non- religious approaches and teachings on various life and death ethical issues.	Details of core Muslim Beliefs, evidence for them and impact on Muslims.	Details of core Muslim Beliefs, evidence for them and impact on Muslims.
	All students know how to	significance of Christian practices, including the	including the appraisal of	and teachings covered, including the appraisal of	Explain and evaluate the beliefs and teachings covered, including the appraisal of evidence.	Explain and evaluate the significance of Muslim Beliefs, including the appraisal of evidence.	Explain and evaluate the significance of Muslim Beliefs, including the appraisal of evidence.

Logical and sequenced acquisition of knowledge to enable all students to know more, do more and remember more	Substantive knowledge (what/topics/key content) versus Disciplinary and/or procedural knowledge (how, methods & skills)	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Spanich	All students know and understand	opinions/preferences.; The present and preterite tenses, polite usted form, creating questions, imperfect tense, and	subjects, facilities, uniform, teachers and problems; Use of adjectives, comparative and superlative forms, negative use, comparison with imperfect	networks, reading preferences; Use of para with infintiives, present continuous tense, connectives, ser and estar, past	changing verbs, soler + infinitive, imperfect tense,	experience, importance of learning languages, job applications, gap years and future plans; use of soler + imperfect, saber and conocer,	Vocabulary to describe culture and tradition, including food, illnesses and injuries, festivals, special celebrations, ordering in a restaurant; Use of reflexives, passive, question words, absolute superlatives, irregular preterites.
Spanish		time frames and a range of complex language and structures; Complete listening assessment covering a range of question types (multiple choice, T/NM, written answer, etc.).	familiar topic; Complete reading assessment covering a range of question types (multiple choice, T/NM, written	complex language and structures; Complete listening assessment covering a range of question types (multiple choice, T/NM, written answer, etc.).	Describe and discuss a photo card in 3 time frames; complete reading assessment covering a range of question types (multiple choice, T/NM, written answer, etc.); Translate a passage covering 3 time frames from English-TL and one from TL-English.	recently, using 3 time frames (included in EOY).	Complete listening & reading assessment covering a range of question types (multiple choice, T/NM, written answer, etc.); Write a 90 and 150 word task using 3 time frames and a range of complex language; Translate a passage covering 3 time frames from English-TL and one from TL-English.