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
Art	All students know and understand	For the Arts and Crafts Project, contextual information about the Arts and Crafts movement; The main artists and characteristics; How to record observations relevant to the topic.	techniques and processes	For the Arts and Crafts Project, the materials, techniques and processes involved in making a clay pot; The processes of in glazing.	For the African Art Project, the historical and cultural information on Africa; Focus on West African art and culture; Symbolic significance of a chosen African animal; Record of observations relevant to intentions.	For the African Art Project, the characteristics of an African pattern; The characteristics of lino print designs.	For the African Art Project, the materials, techniques and processes involved in lino cutting; Lino printing and repeat printing.
	All students know how to	on the Arts and Crafts movement; Use key art vocabulary to analyse the work on William de Morgan; Select a relevant image and explore through drawing to help with later design work; Produce an accurate observational drawing showing an	Evaluate work using key art vocabulary. Apply the rules of composition to design a clay tile; Select relevant images to support in the design for a clay tile; Handle clay effectively; Use the slit, slip and stitch technique to attach clay; Review and refine work as it progresses; Design a clay pot in response to the clay tile evaluation	design onto the clay pot using an appropriate method; Glaze	its cultural significance; Produce an accurate	Produce a series of African inspired patterns using appropriate shapes and colours; Translate these pattern designs using collage; Simplify images to make them suitable for lino printing; Create a balanced positive and negative design.	Cut safely; Use the appropriate tools and equipment to accurately cut a lino design; print lino using an even coverage of ink; print lino on pattern collage creating visual balance.
Biology	All students know and understand	system and how they interact to provide the	The key functions of the organs within the digestive system and how they interact to provide the body with nutrients	•	How a variety of organisms within an ecosystem interact and contribute to a stable environment	The importance of genetic material in an organism and how natural selection enables the survival of a species	The importance of genetic material in an organism and how natural selection enables the survival of a species
	All students know how to	associated with smoking, alcohol and drug abuse on	Evaluate the health issues associated with smoking, alcohol and drug abuse on the human body	Perform an investigation to determine in abundance of species with an area	Perform an investigation to determine in abundance of species with an area	Apply principles of natural selection to identify development of species in unfamiliar situations	Apply principles of natural selection to identify development of species in unfamiliar situations

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	Periodic Table of elements and how patterns in reactions can be predicted.	separating mixtures: filtration, evaporation,	The reactions of metals and acids.	acids.	The structure of the Earth, including the rock cycle and the formation of igneous, sedimentary and metamorphic rocks.	The structure of the Earth, including the rock cycle and the formation of igneous, sedimentary and metamorphic rocks.
Chemistry	All students know how to	data, including identify	apparatus, and materials during fieldwork and laboratory work, paying attention to health and safety	most appropriate types of scientific enquiries to test predictions, including	most appropriate types of scientific enquiries to test predictions, including identifying independent, dependent and control	Understand that scientific methods and theories develop as earlier explanations are modified to take account of new evidence and ideas, together with the importance of publishing results and peer reviews	develop as earlier explanations are modified to take account of new
Physics		(conduction, convection);	Moments and Investigating levers; Equations for kinetic energy and gravitational	Static electricity (types of charge and electric fields); DC circuits (diagrams, current, series & parallel circuits); Measuring current and Potential difference.		Magnetic effect of a current Electromagnets; DC motors	Speed, distance, time; Distance time graphs; Forces & effects (speed & direction); Relative motion; Pressure (measuring & units); Atmospheric pressure; Pressure in liquids; Upthrust & buoyancy; Hydraulics
		Plot graphs; Analyse thermal imaging	Demonstrate effect of a force multiplier; Power equation to solve problems; Do work done calculations and costs.	voltmeters and ammeters	,	electromagnets; test strength of	Do calculations involving speed (average), distance, time, interpreting graphs; Do floating & sinking experiment

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All students know and understand	character; the incorporation of character motivation; specific drama terminology such as stance, gait, gesture, facial expression; the devising	of Commedia; 4 or more stock characters; the narrative tropes of Lazzi; Commedia features of gromalot and the rule of three.	as a means to bring about change using the techniques of Boal; how to create a spect-actor; elements of forum theatre; the use of non-	Kabuki Theatre; the conventions of Japanese theatre and use of performing arts; the characters and types of	towards engaging performance such as physical	The creative techniques and decision-making behind the devising and rehearsal of a performance; a range of drama styles and skills.	
Drama	All students know how to	through physical and vocal adaptations; use specific terminology to give feedback; devise	qualities of the stock characters for Commedia; create a lazzo; exaggerate physicality to create comic	the style of Boal; use forum theatre correctly; use movement effectively to create	mime and dance movement to create a piece of Kabuki drama.	director and audience when focusing on a given script; utilise movement skills such as posture, stance, gait and gesture alongside vocal skills such as intonation, pitch and	Use a script to create engaging theatre; use stage directions and dialogue from an established play text; adapt movement and voice to fulfil a role; follow stage directions.

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Computer Science		to do this, and the steps taken by companies (like	Some of the advances made in terms of artificial intelligence; The limitations of artificial intelligence; The social impact of artificial intelligence.	That algorithms are not just for computers, we can use them in other scenarios; How data structures work and what they can be used for; How we use selection and iteration to branch out from different instructions.	Why militaries do not use the same broadband network as us; How technology has made securing public services (like the National Grid) harder in the wake of cyber-terrorism; The technology a business might use to keep people from accessing computer systems building (pass keys/biometrics); How technology has made our lives easier as we don't need to remember passwords and how government level checkin [like at an airport] is being made easier.	using HTML and CSS; What all of the HTML tags do.	How hexadecimal code is used to represent colour; That computers use binary and humans use hexadecimal number systems; The difference between a bitmap image and a vector image; What resolution is.
	All students know how to		Argue both for and against the use of artificial intelligence in the realm of driverless cars; Program a driverless car simulation by being precise when copying/editing code.	Convert a set of processes into an algorithm (specifically, the 21 card trick); Create a program based on the 21 card trick.	in order to make suggestions;	Create a basic webpage from scratch; Be able to use all of the basic HTML tags; Be able to open the webpage in both a read-only and editable format.	Create a bitmap image from scratch, using the relevant colour codes.

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DT*	All students know and understand	cutter and more ways to use 2D design; A design movement of their choice and its aesthetic qualities;	works; What is a hem; Threading a sewing machine;	Wood finishes; Tool names; Plastic memory and properties of polymers; Polymer properties and their uses	qualities; Metal types and	Block printing, its heritage and how pattern formation works; What is a hem; Threading a sewing machine; Weaves of fabrics; Fabric properties and their uses	Wood finishes; Tool names; Plastic memory and properties of polymers; Polymer properties and their uses
study T1-3 or T4-6 on rotation with F&N)	All students know how to		pattern; Thread and use a sewing machine; Cutting	Apply wax effectively; Emboss thermo forming polymers, sand and Deboss; Drill safely and accurately	cast	machine; Cutting accurately a lap	Emboss thermo forming

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English	understand	them; The form of the class structure in England in Edwardian Britain; The meaning and workings of the Patriarchy and Gender	contemporary novel; The writer's message in the novel and how this is developed; How themes develop throughout the text and link	extended metaphor, tone and	Conventions of the Gothic genre including Tropes such as transformation and madness. A range of texts from the Gothic genre and the literay devices found therein. The creation of suspense and tension in writing.		The context of 'Macbeth'; The plot and characterisation of the play; Dramatic terms: soliloquy and foreshadowing; Features of a Shakespearean tragedy; Different forms adopted by Shakespeare including lambic Pentameter/Blank Verse, rhyming couplets, prose and sonnets.
	All students know how to	symbolism is used for characters; Embed and	Write an analytical essay about themes; Track themes across a text; Write detailed PEAL paragraphs including	Analyse poetical voice/ writer's perspective; Deepen analysis of how language is used to show attitude towards a theme/idea; Analyse the effect of poetic forms.	Write a creative piece based on the Gothic genre. Include Gothic conventions such as pathetic fallacy and suspense. Revise language paper one.	Shakespeare's use of dramatic style, form and language.	Use commas correctly; Integrate context into an essay; Synthesise context and argument; Analyse an extract and link to the play as a whole; Explain Shakespearean language choices 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
Food & Nutrition*		Expectations, food hygiene and safety rules and guidelines; Organisation of the Food room; Enzymic browning and how to prevent it; The range of diets and foods available for food choice and special diets; Protein foods and function in the body; Fats and oil ingredients	combine with other ingredients to make bread; Food labelling – what	The science of how ingredients thicken a sauce – gelatinisation; Different cereal grains and how they are processed; Different religious and cultural diets; Food provenance, where food comes from and how it is produced	Expectations, food hygiene and safety rules and guidelines; Organisation of the Food room; Enzymic browning and how to prevent it; The range of diets and foods available for food choice and special diets; Protein foods and function in the body; Fats and oil ingredients	'	The science of how ingredients thicken a sauce – gelatinisation; Different cereal grains and how they are processed; Different religious and cultural diets; Food provenance, where food comes from and how it is produced
(students will either study T1-3 or T4-6 on rotation with DT)	All students know how to	fruit, peeling; Prepare vegetables; Use the hob safely; Demonstrate the creaming method by hand, shaping and safe use of the oven.	Demonstrate the rubbing in method and combine to make shortcrust pastry; Use tin openers safely; Create a	Make a white sauce using the all in one method as part of making Cheesy pasta; Multi task 2 pans on the hob, draining pasta safely; Independently cook a healthy breakfast – a recipe they have developed; Use the creaming method using the electric whisk, safe use of oven.	claw safety cutting fruit, peeling; Prepare vegetables; Use the hob safely; Demonstrate the creaming	to make it healthy; Demonstrate the rubbing in method and	Make a white sauce using the all in one method as part of making Cheesy pasta; Multi task 2 pans on the hob, draining pasta safely; Independently cook a healthy breakfast – a recipe they have developed; Use the creaming method using the electric whisk, safe use of oven.

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	describe a visit to a theme park, where you went and how, a disaster holiday; the formation and use of the perfect tense with regular -ER verbs, key	food at a markert, talk about food/drink, talk about a future trip, discuss resolutions; the formation	celebrities, TV/cinema, technology and shopping; singular and plural adjective agreement, the formation and use of negative	where you live, the weather, household chores, daily routine, moving house; the conjugation and use of modal verbs, reflexive verbs and irregular adjectives; the conjugation and use of three	comparative; The imperative; IL FAUT + infinitive; Questions and	authentic and challenging texts adding to the cultural
French	All students know how to	Listen for negatives, read to spot the perfect tense in a text, use the present and perfect tenses together listening & 70	near future tenses, give answers in French for a	Spot synonyms, look up perfect tense verbs when reading, speak from notes; listening & 90	Use resources to find and translate nouns into French	recently, using 3 time frames	Complete listening & reading assessment covering a range of question types (multiple choice, T/NM, written answer, etc.); write a 90 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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Geography	All students know and understand	,, ,	To what extent are rivers and glaciers similar in their formation, processes and landforms.	Whether hazards are created more by human action (or inaction) or the physical nature of the event; The foundations of structure of earth/plate boundaries; Three different regional examples.	give nation-states power on the global stage including: physical geography and natural resources; Tim Marshall's Prisoners of	associated with water resource extraction with a	Students will completed the RGS Young Geographer of the Year award.
		Apply the Point Develop Link structure; Interpret topographical, choropleth & thematic maps.		Apply the Point Develop Link structure; Develop a 'compare and contrast'- style of writing; Interpret topographical, choropleth & thematic maps.	Apply the PDL structure; Use a range of graphical skills.		Create an academic poster. How to research a geographical idea, present a range of data and reach a justified, well-evidenced viewpoint. Use a range of graphical skills.

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German	All students know and understand	present using present and imperfect tenses; to describe a past holiday using the perfect tense; vocabulary to describe the weather in the present and past; forming questions in	vocabulary to discuss what and where you like to read using the dative case; to	traditional German food and how to order from a menu; vocabulary to discuss healthy lifestyles using the modal verb müssen.	rules using modal verbs and daily routine using separable and reflexive verbs; to tell the time (12-hour); to give directions using the	style using the connective wenn; to explain plans for a date using the future tense and accurate word order; tp describe a past date using the past tense.	Use of previously seen topical vocabulary within authentic and challenging texts adding to the cultural element and understanding of the language, including the use and construction of verbs in key tenses seen previously in the year.
GCG.		using 3 time frames; Complete listening assessment covering a range of question types (multiple choice, T/NM, written answer, etc.)	card in 3 time frames; Complete reading assessment covering a range of question types (multiple	time frames; Complete listening assessment covering a range of question types (multiple choice, T/NM, written answer, etc.)	(answering and asking	recently, using 3 time frames	Complete listening & reading assessment covering a range of question types (multiple choice, T/NM, written answer, etc.); Write a 90 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

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	English Civil War for the future of England and how	Revolution and the events of the French Revolutionary Wars, considering the rise	communist dictatorship in Russia and how this impacted Russian society.	and what life for enslaved peoples was like, considering its impact on individuals and society.	Rights movement throughout the 20th century and the methods used to combat	The progress in women's rights since the Victorian era, considering the suffragettes and modern feminism movements.
History		significant cause of the English civil war, reaching a	consequence of the French Revolutionary Wars, reaching a clear judgement.	cause of the Russian Revolution, reaching a clear	and develop their source analysis skills, with a focus on provenance.		Evaluate and judge the progress made in women's rights, considering change, continuity and progress.

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		Algebra is used to represent unknown values and the rules that apply to algebra; perimeter is the length around the outside of a shape. Area is the space inside; Pythagoras is a theorem which applies to right angled triangles. -π is the ratio between the circumference and diameter	Relationships can be plotted on the x-y axes of a cartesian graph; percentages are parts of 100; probability and the chances of events occurring.	Three dimensional shapes and how they can be represented on paper; the outside faces can be measured as a total surface area; the space inside is measured as a volume.	Algebraic equations are solved to find missing unknown values; numbers can be broken down into smaller parts; understand that indices are a method of showing repeated multiplications; large and small numbers can be written in standard index form.	Rulers and compasses can be used to construct accurate shapes, perpendiculars and bisections; scales and bearings are used in real life to describe journeys and positions.	Statistics can be clearly represented graphically; graphs can represent proportional changes; journeys can be represented on a graph.
Maths	All students know how to	substitute numbers into algebraic expressions; expand double brackets; calculate the area of 2D shapes; use Pythagoras theorem to calculate lengths in a right angled triangle; calculate the circumference of a circle; calculate the area of a circle; calculate the perimeter and area of part circles (angles that are a factor of 360 degrees)	percentage of an amount. (non- calculator and calculator); use single multipliers to find a percentage of an amount;	Name and identify 3D solids, including edges, vertices and faces; draw 2D representations of 3D shapes; draw plans and elevations of a 3D shape; draw 2D representations of a 3D shape from plans and elevations; understand and identify planes of symmetry; sketch and construct nets of 3D shapes; calculate the surface area and volume of 3D solids. (prisms); calculate the surface area and volume of cylinders (and part cylinders); calculate the volume of compound shapes; solve problems involving volumes and surface areas.	problems with algebraic equations including area, perimeter and angles; calculate HCFs and LCMs; estimate square roots and cube roots; estimate solutions to calculations by	line; construct angle bisectors;	Draw and interpret bar charts, pie charts and two way tables; direct proportion graphs; interpret financial graphs; interpret distance time graphs; calculate rates of change; recognise and comment on misleading graphs.

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Music		, ,,	have played in Western	How music is composed for film and media and recognise the features in specific genres	from South America and its		The features and context of the blues, as well developing knowledge of chord patterns and scales.
		.71:	number from a				Apply the above knowledge to perform and/or compose a 12-bar blues.

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Physical Education Tonbridge	All students know and understand	The development of choreographic devices within Gymnastics and their use within a group routine; Advanced Netball rules as well as their own preferred positions and the responsibilities of that position.	Advanced Netball rules as well as their own preferred positions and the responsibilities of that position; The basic rules of Hockey, including positional responsibilities.	The basic rules of Hockey, including positional responsibilities; The skills needed to work effectively as a team to solve a range of problems.	solve a range of problems; The development of choreographic devices within Dance and their	The development of choreographic devices within Dance and their use within a group routine; The health and safety considerations associated with Athletics events; The rules of Cricket and apply their skills to competitive situations.	The health and safety considerations associated with Athletics events; The rules of Cricket and apply their skills to competitive situations; The rules of Rounders and apply their skills to fully competitive games.
	All students know how to	skills they learnt in Year 7 and use these to create a	in Year 7 and apply them to competitive games of Netball; Develop the basic skills they	Develop the basic skills they learnt in Year 7 Multi-skills and apply them to competitive situations; Work together in order to complete a variety of outdoor adventurous activities.	complete a variety of outdoor adventurous activities; Develop the Dance skills they learnt in Year 7 and use these to create a group routine.	Develop the Dance skills they learnt in Year 7 and use these to create a group routine; Develop their throwing/ jumping/running techniques for each event; Measure and time accurately; Develop the skills they learnt in year 7, and apply them to the game of Cricket.	Develop their throwing/ jumping/running techniques for each event; Measure and time accurately; Develop the skills they learnt in year 7, and apply them to the game of Cricket; Develop the skills they learnt in year 7 and in Cricket and apply them to the game of Rounders.
Physical Education Sevenoaks	All students know and understand	The development of choreographic devices within Gymnastics and their use within a group routine; Advanced Netball rules as well as their own preferred positions and the responsibilities of that position.	Advanced Netball rules as well as their own preferred positions and the responsibilities of that position; The basic rules of Hockey, including positional responsibilities.	The basic rules of Hockey, including positional responsibilities; The skills needed to work effectively as a team to solve a range of problems.	solve a range of problems;	The development of choreographic devices within Dance and their use within a group routine; The health and safety considerations associated with Athletics events.	The health and safety considerations associated with Athletics events; The rules of Cricket and apply their skills to competitive situations; The rules of Rounders and apply their skills to fully competitive games.
	All students know how to	the skills they learnt in	in Year 7 and apply them to competitive games of	Develop the basic skills they learnt in Year 7 Multi-skills and apply them to competitive situations; Work together in order to complete a variety of outdoor adventurous activities.	complete a variety of outdoor adventurous activities; Develop the Dance skills they learnt in	Develop the Dance skills they learnt in Year 7 and use these to create a group routine; Develop their throwing/ jumping/running techniques for each event; Measure and time accurately.	Develop their throwing/ jumping/running techniques for each event; Measure and time accurately; Develop the skills they learnt in year 7, and apply them to the game of Cricket; Develop the skills they learnt in year 7 and in Cricket and apply them to the game of Rounders.

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Religious Education	All students know and understand	Key places of religious pilgrimage, including details of why they are significant, what happens there and how it impacts on believers.	Details of arguments for and against the existence of God.	Details of arguments for and against the existence of God.	Beliefs, teachings and practices around peace & conflict from religious and non-religious viewpoints.	A variety of ways religious beliefs are expressed through music and art.	Details on the challenges faced by religious young people in the UK.
	All students know how to	Explain the beliefs and teachings covered and appraise the evidence and arguments involved.	Explain the beliefs and teachings covered and appraise the evidence and arguments involved.	Explain the beliefs and teachings covered and appraise the evidence and arguments involved.	Explain the beliefs and teachings covered and appraise the evidence and arguments involved.	Explain the link between art and religion and cite a range of examples to support.	Explain and evaluate the impact religion has on young people.
Spanish	All students know and understand	past holidays, holiday	Vocabulary to describe phone use, music preferences, TV habits, free time activities; using the present tense and past tense together, a range of opinions, the comparative	Vocabulary for food items, meatltimes, order a meal, discuss parties; use of negatives, usted polite form, the near future tense, using three tenses together	Vocabulary to make arrangements, excuses, preparations, clothes, fancy dress; using me gustaría + infinitive, using querer and poder, using reflexive verbs, use of three tenses	Vocabulary to describe holiday homes, activities, directions, summer camps; using the superlative, giving directions, using three tenses	Use of previously seen topical vocabulary within authentic and challenging texts adding to the cultural element and understanding of the language, including the use and construction of verbs in key tenses seen previously in the year.
	All students know how to	using 3 time frames;	card in 3 time frames; complete reading assessment covering a range of question	Write a 90 word task using 3 time frames; complete listening assessment covering a range of question types (multiple choice, T/NM, written answer, etc.)	Complete a role play (answering and asking situational questions); 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	Perform a general conversation	Complete listening & reading assessment covering a range of question types (multiple choice, T/NM, written answer, etc.); write a 90 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