## Year 12 curriculum overview

### Whole-school curriculum intent:

Everything we do at Settle College is rooted in our vision to support all our students to 'be the best they can be'. Through developing a rich and exciting curriculum that is relevant to our locality and implemented with high quality teaching, we aim to secure outstanding progress and achievement for all, whilst also developing confidence, independence and resilience in our learners. In this ever-changing world, we need to equip our students with the knowledge and skills that they need to thrive, with the ability to lead and communicate in a thoughtful and respectful way. We must instil in our students that they can do whatever it is they aim to achieve and to help them to overcome any barriers in their way. All of this aims to provide them with the vital skills for life-long learning so that their personal progression continues beyond their years at Settle College.

### Key Stage 5 curriculum planning

Our curriculum offer at key stage 5 is currently: applied science, art & design, biology, business, chemistry, drama & theatre, English language, English literature, geography, history, IT, maths, music, photography, physics, product design, psychology, religious studies, Spanish and Sport, as well as offering the extended project qualification to all students. As with key stage 4, the curriculum offer is designed to cover a diverse range of subjects to cater for students' interests and future goals whilst recognising that, as a small sixth form, we cannot offer every possible subject choice. To maintain this range of courses, when appropriate, both year 12 and 13 students are taught together or different courses are run within the same class, with some courses run in collaboration with our neighbouring school. We also offer work experience as an option to run alongside two vocational subject choices.

# **Curriculum mapping**

Overall curriculum intent for year 12: Study a wide variety of scientific ideas across all three science disciplines in greater depth, building a broad base of scientific knowledge at level 3

	scientific kno	wledge at level 3.					
		Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
Applied science	Intent for the topic	begin the p	e chemistry LO1&2 and physics LO5. Jnit 6, moderate.	Complete Unit 1, Include Physic Externally mo Begin teach	derate unit 6.	Revise Unit 1 and take the Unit 1 Summer exam.  Continue teaching unit 2.	
	Content mapping	Unit 1: LO1, 2 Unit 6 Assignments 1, start 2	Unit 1: Complete LO2 and LO5 Unit 6: Assignments 2 and 3	Unit 1: LO3,4, 6	Unit 2: LO 1, 2 &3	Unit 2: LO 4, 5, 6	
	Key skills developed	Calculating relative atomic mass.  Describing graphs showing the ionisation energies of elements on the periodic table.  Identify biological hazards and the microorganisms that cause them.	Explaining how chemicals interact with each other in various ways: redox, polymerisation. Describing and explaining rate of reactions. Identifying hazards in the lab. Designing a work area.	Identify cell structures from light and electron microscope images. Identify tissue types from light and electron microscope images.	Identify hazards and risks and then write risk assessments. Calibrate equipment. Chromatography. Electrophoresis. Titrations.	Use a light microscope for pupils and those the Accurately draw in microsulse experimental resulsubsta	ey prepare themselves. mages from a light scope. Its to identify unknown ances.

	Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6		
Intent for the topic	Work shops Pupils will do three workshops based on different themes.  Main Coursework Pupils will choose a coursework title that they will work on throughout the year, ensuring they meet all the assessment objectives.  A01- Develop: Develop ideas through investigations, demonstrating critical understanding of sources.							
	AO2- Refine: Refi	ne work by exploring idea	s, selecting and experime	enting with appropriate m	nedia, materials, techniqu	es and processes.		
		AO3- Research: Record i	deas, observations and in	nsights relevant to intenti	ons as work progresses.			
	AO4- Present: Pre	esent a personal and mea	ningful response that rea	lises intentions and demo	onstrates understanding c	of visual language.		
Content mapping, including key skills developed	Pupils will be given a selection of fortnightly workshops to reintroduce them back to art or photography, after some may have had a year away. These workshops are designed to challenge the pupils' thinking, build on creativity, improve problem solving skills and improve their presentation skills.	provide a list of previo course of this year, work help inspire further work Pupils will also be encou colour choices and desig	us titles from previous co on their sketchbook, who Pupils will also explore to uraged to learn to refine ns. Pupils will have the o urney and the relevance By February half term, the first 500 words should be written.	oursework and exams tha ere they will explore artis their theme in detail, look their work through furthe pportunity to work outsic	ruggle to create their owr the pupils can work from the pupils can work from the pupils can work from the content of their books on large over the formal elements.  By May half term, 1500 words should be written.	n. Pupils will, over the raphers and use them to periments and materials aproving compositions, rescale pieces, as long as		

	Overall curri	culum intent for year 12:	Develop knowledge on f	rom GCSE content to prep	pare for the second year o	of A-level and post-18 stu	ıdy.
		Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
		Topic 1) Understand the	e effect of heart disease				
		on the body, thereb	y understanding the	Topic 3) Understand the ultrastructure of cells,		Topic 5) Understand ho	w species diversity and
		structure and function of the circulatory		and how this is replicate	ed through cell division	succession occurs and	carry out sampling to
	Intent for the topic	system and the dependent organs and		(mitosis and meiosis). U	Inderstand how DNA is	determine spe	ecies richness.
		systo	ems.	replicated in these prod	cesses and how genetic	Topic 6) Understand th	e range of investigative
8		Topic 2) Understand the structure and function		variation can arise.		procedures forensic	scientists can use to
		-	and delve deeper into	Topic 4) Understand the importance and how to			
0		the role of DNA, to incl	ude DNA transcription,	measure biodiversity, a	·		via infections through
1 6		translation and replication, and how errors in		structure and function,	as well as some of the	understanding the ro	le and function of the
B.		this system can result in diseases such as cystic		uses of a variety of plants.		immune	system.
		fibr	osis				
		Data analysis and the		Risk assessment writing			Use of specialised
		difference between	Microscopy and	for CPACs, producing	Carrying out field	Field studies and	equipment
	Key skills	correlation and	practical planning skills	microscope slides of	studies to determine	specific calculations to	(centrifuge) and
	developed	causation, dissection	through CPACs- more	allium meristem- using	species richness and	determine statistical	glassware to make
	acveloped	and microscopy skills-	independent than	specialist techniques	density.	significance	accurate and
		building on those at	expected at GCSE.	and knowledge.	actionly.	3181111001100	consistent
		GCSE.		and knowledge.			measurements.

# **Business Studies**

Overall curriculum intent for year 12: We strive to ensure that students develop a keen interest in how and why businesses operate in the way they do and to understand how they react and adapt in an ever-changing world. The Business curriculum is designed to inspire students, leading them to discover, question and understand businesses, both in the present day and the future. Business students might see the path into employment, entrepreneurship or further study from the creative and informative learning journey they undertake.

	Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
Intent for the topic	I they do the sector	Still with Unit 1, students will explore ways in which businesses respond to external changes and the necessity for a business to plan.	Unit 4 is portfolio work. In this unit, students will learn the purpose, methods and importance of communication in business and the appropriateness of different forms of	Students will develon	Students will also learn about the legal constraints, ethical and security issues that affect how businesses store, share and use information.	This new unit (2) will cover the skills and understanding needed to work effectively within a business environment. The skills and understanding

	organised and the financial aspects of running a business.		communication for different situations.			students will develop through this unit are critical to the success of any business and are highly valued in the business world; they are vital regardless of the role held within an
Content mapping	Types of businesses and their objectives. How the functional areas of businesses work together to support the activities of the business. The effect of different organisational structures on how businesses operate Using financial information to check the financial health of businesses. The relationship between businesses and stakeholders	External influences and constraints on businesses and how businesses could respond. Why businesses plan. Assessing the performance of businesses to inform future business activities.	Who customers are and their importance to businesses. Communicating with customers. Establishing a rapport with customers through non-verbal and verbal communication skills.	Conveying messages for business purposes. The constraints and issues which affect the sharing, storing and use of information for business communications.	Looking at employee confidentiality when handling personal information or classified information on clients.	Protocols to be followed when working in business. Factors that influence the arrangement of business meetings.

ŀ		Half term 1	Half term 2	e on from GCSE content to pre Half term 3		alf term 4	Half term 5	Half term 6
		Tidii teriii 1	Hall term 2	Tian term 5			Core organic chemistry:	Module 5- Physical
Chemistry	Intent for the topic	Module 2- Foundations in chemistry- students explore a range of core concepts to bridge the gap between GCSE and A- Level, including atomic structure, moles, acids and their reactions, bonding and intermolecular forces.		Module 3- Periodic table and energy: students begin to learn about the periodic table and the nature of periodicity, how these link into energy changes and the ways in which we can determine energy changes. Rate of reaction and equilibria are studied, and a focus on optimising rates of reactions with a view to ensure chemistry is made more sustainable.		students begin to understand the various nomenclature conventions for a range of organic substances, and how to express these using a range of different formulae. Understand the reactions, uses and safety precautions to be taken when handling is crucial, as is how to analyse products of reactions instrumentally. Students begin to look at the first set of functional groups within the A-level course: alkanes, alkenes, alcohols and haloalkanes. Students also look at synthesis in organic chemistry and how structures can be identified using spectroscopy.		chemistry and transition elements: understand how the impact of changing concentration on rate of reaction can be quantified.  Module 6- Understand a greater range of organic chemicals than covered previously, to include aromatic
	Content mapping	Module 2: Atomic stru substance, acid reactio and bon	ns, redox, structure	Module 3: the periodic table, changes, rates of reaction, re reactions & equilibria a sustainability.	versible nd	Module 4: no groups, hydrocarbons, organic syn analy	omenclature of functional isomerism, aliphatic alcohols and haloalkanes, thesis and instrumental ytical techniques.	compounds Topic 5- 5.1.1 How fast? Topic 6- 6.1.1 Aromatic compounds
		The CPAC practi	cals are carried out a	cross the course, as well as the	formal t	eaching of the sl	kills required to complete th	· · · · · · · · · · · · · · · · · · ·
	An introduction to the more complex		Interpreting trends in reactivexplaining this using the perioof The use of drawn enthalpy continuities complex calculate Drawing and interpreting reaction graphs.  Further development of prochemistry skills.	dic table. ycles to ions. ate of	Organic chemistry notation for molecules and reaction mechanisms.  Nomenclature for different functional groups.  The practical techniques and health and safety considerations for organic synthesis practicals.		More sophisticated practical techniques for monitoring rate of reaction. Develop calculation skills further, including the use of logs. Drawing and use of rate of reaction graphs.	

	Overall curri		To encourage curiosity a				
		Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
	Intent for the topic	To develop knowledge and understanding of theatre practitioners and performance skills	To develop knowledge and understanding of Set Text 1 form a performance perspective – the role of the actor and director  Think Like a Designer – an introduction to set, props, costume, lighting & sound design for performance		To develop skills of analysis and evaluation in response to Live Theatre	To develop imagination and creativity devising new work in response to a stime	
Drama	Content mapping	Practitioners: Stanislavski, Brecht, Artaud, Berkoff 5 Truths  Live theatre – Much Ado performance skills focus  C3 Extract 1 Shakespeare Monologue	performance Study of Set Text 1 Our Country's Good in performance Social, historical, cultural context Representational and multifunctional Set Design for Epic Theatre  LFX & SFX designing lighting and sound Stage Management: Creating a props list  Wardrobe Plot & Costume Design		Analysis and evaluation of live theatre production (TBC each year)	Development of practitioner resear Devising in the style of a chosen practiti response to a stimulus. Writing Devising Logbook	
	Key skills developed	Terminology Performing scripted plays Shakespeare Practitioners	Desigr Termir Interpro Creative	nology etation	Terminology Observation skills Evaluation & analysis Forming an opinion	Collab	tivity oration nication

		Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
age	Intent for the topic	Bridging work. Language and representation. Grammar and syntax. Language and technology.	Modes and textual variation. Language and gender. Introduction to phonetics.	Introduction to sociolinguistics. Idiolects and sociolects.	World Englishes and generic language usage. Media representations.	Language and occupation. Accents and dialects. Phonetics and conversations.	Creative writing NEA. Opinion writing.
	Content mapping	Genre and text type including multimodal texts. Computer-mediated communication.	Language and gender. Spoken language theorist studies explored. Use of different levels of language analysis.	Idiolect and sociolect. Dialect. Language and ethnicity. Accent bias investigated.	Developed analysis of attitudes to variation and diversity e.g. prescriptivism versus descriptivism.  Case studies on World Englishes.	Language and occupation. Communication practices and models.	Use of Paper 1 section A texts to inspire own work. Mini project work on data collection and style model analysis.
English Langua	Key skills developed	How to analyse varied conventions of different media types across time. Recognition of key meta language terminology Ability to apply grammatical vocabulary at a semantic, syntactic and pragmatic level. Ability to apply knowledge in a meaningful and structured argument across an essay. (Ability to build an argument in their own writing.)	How to recall and use own knowledge in own analysis of political and social expectations for different genders across time.  Recognition of and identification of varied purposes and types of spoken interaction and applying this knowledge to the analysis of texts to identify meanings and representations.  Application of IPA knowledge in essays.  Ability to construct analysis of studies and theorists in own essays.	How to apply personal identity and psychology theories within the analysis of a text. Identification of pertinent geographical features and that influences upon the English language. Creation of a synthesised essay response responding to varied social influences.	How to recall and appropriately apply within essays political historical influences on the language from across the world. Recognition of rhetorical devices and the use of media for propaganda including the analysis of meanings created using these devices. Application of graphological metalanguage as appropriate in formal essays. How to analyse varied conventions of different media types across time.	How to recognise the different language used within varied jobs and positions.  Analysis of these uses built into essays.  Ability to apply relevant theories related to language and technology.  Synthesis and analysis of varied theorists and studies in own writing.  Ethnic group theories.  Analysis of ingrained prejudice to accents and pertinent studies.	Awareness of and effective analysis of the purposes of a range of genres texts and cultural influences across time.  Effective analysis of social, political and personal opinions including a synthesised response to varied texts on these topics.

		Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
	Intent for the topic		Aspects o	Introduction of NEA Wider reading – prose and poetry.	Aspects of political and social protest writing. Begin choice of texts for NEAs.		
ature	Content mapping	Introduction to genre of Tragedy. Richard II. The Great Gatsby.	Finish Richard II. The Great Gatsby. Begin King Lear.	King Lear. Finish Gatsby.	King Lear Begin Keats – poems from the Tragedy Anthology.	Understanding different critical approaches. Wider reading of prose and poetry.	Introduction to genre of protest writing. Introduction of Blake. Choosing of NEA texts.
English Litera	Key skills developed		How to analyse ele o analyse the language oply contextual detail to		How to apply different literary theories to analysis of literary prose and poetry texts. The different literary theories being: Narrative theory Marxist theory Feminist theory Post-Colonial theory Eco-Critical theory Theories around the Canon	How to apply different literary theories to analysis of literary prose and poetry texts. How to analyse elements of political and social protest writing. How to analyse language and structure of a political and social protest text. How to apply relevant contextual detail to support analysis of a political and social protest text.	



	Overall curri	culum intent for year 12: enabling stu	idents to engage critically with real w	orld issues and places, working at a	local and a global scale.
		Topic 1	Topic 2	Topic 3	Topic 4
	Intent for the topic	Tectonic processes and hazards	Globalisation To understand the reasons for and consequences of a rapid increase in globalisation.	Coastal Landscapes and change	Regenerating Places To understand what makes a place successful or unsuccessful and to understand how regeneration is planned and assessed.
Geography	Content mapping	Understanding why some areas are more at risk from tectonic hazards. Identifying and explaining global distribution of tectonic hazards through plate boundaries. Understanding the theoretical frameworks that attempt to explain plate motion and movement. Understand the interaction between hazards, vulnerability, and resilience. Recognising the significance of hazard profiles as a tool for understanding different hazard impacts and know how development and governance are important in understanding disaster impact and vulnerability. Understanding the complex trends over time and how some can develop into mega disasters. Use hazard models and frameworks to understand prediction, impacts and management. Evaluate mitigation and strategies.	Understand why global shifts in economic activity brings a range of environmental, economic and social impacts. Explain how globalisation is linked with increasing scale and pace of economic migration, and results in a range of impacts to places of varying scales. We will assess the global and local cultural changes associated with globalisation, and the reactions they bring. Assess the tensions for individuals and societies resulting from the rapid changes globalisation brings to places. Be able to explain the importance of the concepts of sustainability and localism.	Understanding why coastal landscapes differ and the importance of the underlying geology. Recognise the influence of sub-aerial processes and erosion and together they can create distinctive features. Understand the process of sediment transport and how this generates depositional features. Explain how sea level changes; both long- and short-term influences on the physical geography and increase the risk for people. Understand how coastal flooding is a risk on some coastlines and the impact of global warming on coastal flood risk. Understand how decisions are made about hard and soft engineering approaches and how they can reduce risk. Identify how this can create both winners and losers.	Explore how economies vary and how functions of places have changed over time. We will identify ways of measuring this change. Compare how two contrasting places have been shaped by past and present connections at different scales. Identify how economic and social inequalities can change people's perceptions of an area and evaluate the need for regeneration. Understand the key role national governments play in regeneration and being aware of the role rebranding can play. Understand the different ways of evaluating regenerating projects.

		Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
	Intent for the topic	Nationalism, dictatorship and democracy in 20 <sup>th</sup> century Europe – part 1	Nationalism, dictatorship and democracy in 20 <sup>th</sup> century Europe – part 2	Nationalism, dictatorship and democracy in 20 <sup>th</sup> century Europe – part 3	Nationalism, dictatorship and democracy in 20 <sup>th</sup> century Europe – part 4	To explore a topic which has provoked debate among historians and different interpretations of the past.  To provide an overview of 19 <sup>th</sup> century Russian history as an introduction to the coursework unit.	Exam practice and revision.  To start the Year 13 unit: Protest, agitation and reform in Britain c1780-1928.  To continue with an overview of Russian history.
History	Content mapping	The Weimar Republic 1918-33. Giolitti and Liberal Italy.	Nazi Germany 1933-45. The rise of Mussolini.	The post-war division of Germany. The Federal Republic of Germany 1949-65. The Italian Fascist State.	The Federal Republic of Germany 1966-89. The fall of the Fascist State in Italy.	How far was Hitler's foreign policy responsible for the Second World War?  Italy revision.  Russia – 3 Tsars.	Germany exam practice and revision.  Britain c1780-1928 – changes to the franchise and representation.  Russia – the 1905 Revolution.
	Key skills developed	Causation Consequence Similarity/difference Continuity/change Significance Analysing and evaluating historical sources.	Causation Consequence Similarity/difference Continuity/change Significance Analysing and evaluating historical sources.	Causation Consequence Similarity/difference Continuity/change Significance Analysing and evaluating historical sources.	Causation Consequence Similarity/difference Continuity/change Significance Analysing and evaluating historical sources.	Causation Consequence Similarity/difference Continuity/change Significance Analysing and evaluating historical sources. Historical interpretations.	Causation Consequence Similarity/difference Continuity/change Significance Analysing and evaluating historical sources.

Overall curriculum intent for year 12: Students will gain the right combination of knowledge, understanding and skills required for the 21st century, enabling them to demonstrate the skills of writing specifications, and the design, build, testing and implementation of applications. They will develop a solid foundation in the fundamentals of hardware, networks, software, the ethical use of computers and how businesses use IT. Students will have a greater understanding of how organisations use information sources both internally and externally and the types of information they will encounter. The skills gained by completing this qualification will give them knowledge of the functionality of information and how data is stored and processed by organisations. They will also learn about how individuals use information of various types.

		Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6	
	Intent for the topic	Induction Prepare for Unit 1 exam	Prepare for Unit 1 exam	Learn phases of development lifecycle Application development models	App research	Prepare for resit if needed App research and requirements	App creation	
=	Content mapping	1.Understand computer hardware 2.Understand computer software 3.Understand business IT systems	4. Understand employability and communication skills used in an IT environment 5.Understand ethical and operational issues and threats to computer systems	Requirements analysis, design, coding/ implementation, testing, deployment, maintenance, comparison of development models	Market analysis, user interview and analysis	Case study (if it is unit 2 this year rather than unit 1 – see yr 13) and revise  Feasibility study MOSCOW constraints and limitations, feasibility study,	Case diagrams, site maps, DFDs, wireframes, visualisations, presenting to client	
	Key skills developed							

)	This is currently under review and will be updated soon.								
		Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6		
•	Intent for								
•	the topic								



	Content			
	mapping			
	Key skills			
	developed			

	Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
Intent for the topic	Work shops Pupils will do three workshops based on different themes.			objectives.	the year, ensuring they me	
		<b>AO1- Develop</b> : Develop id		<u> </u>		
	AO2- Refine: Refi	ne work by exploring idea				es and processes.
				nsights relevant to intent		
	AO4- Present: Pre	esent a personal and mean				
Content mapping, including key skills developed	Pupils will be given a selection of fortnightly workshops to reintroduce them back to art or photography, after some may have had a year away. These workshops are designed to challenge the pupils' thinking, build on creativity, improve problem solving skills and improve their presentation skills.	provide a list of previo course of this year, work help inspire further work Pupils will also be encou colour choices and desig	us titles from previous co on their sketchbook, wh . Pupils will also explore t uraged to learn to refine ns. Pupils will have the o urney and the relevance	oursework and exams tha ere they will explore artis their theme in detail, look their work through furthe pportunity to work outsic	ruggle to create their own the pupils can work from sts, designers and photogon king at images, media, exper experiments, such as in the of their books on large over the formal elements  By May half term,  1500 words should be written.	n. Pupils will, over the raphers and use them to periments and material nproving compositions, r scale pieces, as long a

		Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
	Intent for the topic	ski Mechanics a Understand scalars a treatment, Newtonian	Physics- revisiting key ills. nd materials- and vectors and their laws of motion, as well ehave under stress.	fundamental pro electromagnetic rac pheno Waves and optics- unde different wave types a	ion- understand the perties of matter, diation and quantum omena. erstand the properties of and their interactions, ves, superposition and erence.	Electricity- understand the complex interrelationships that exist between current, voltage, power, charge and energy, and how these factors differ in different circuit types.	Further mechanics and thermal physics-Advance further study of motion by examining more complex motional systems Fields: Understand the unifying role field theory can have to gravitational, electrostatic and magnetic fields.
Physics	Content mapping	Mechanics- forces in equilibrium, kinetics, force and momentum	Work, energy and power, materials and tensile strength, thermal energy transfer.	Particles and radiation. Quarks, leptons and quantum phenomena.	Optics- refractions, reflection, interference	DC circuits, electric current, equations, resistance of a wire.	Periodic and circular motion, simple harmonic motion. Fields- Gravitational fields and electric fields, capacitors.
	Key skills developed	Accurate and reliable measurements of time, force, speed, velocity. Understanding the composite nature of complex ideas (i.e. projectile motion). Use of correct units, use of roots and squares. Graphical skills including how to calculate a gradient at a point on a curve.	Recording accurate measurements of wire diameter using micrometers, including zero error check. Safely applying loads to wires until they snaprisk assessment	Development of ability to take accurate measurements of distance (without parallax), ensuring accuracy of results, methods to reduce % error.	Rearranging complex formulas involving roots and squares, use of indices, safe use of lasers and high energy devices with reference to current legislation (CLEAPPS)  Wave/particle duality.	Understanding safety processes (heating effect of current).  Measuring of current using range of appropriate equipment.  Use of logarithmic paper to plot/read results.	Planning and carrying out of investigations into specific heat capacity and latent heat. Planning and carrying experiments to record accurate data on the reciprocal motion of a pendulum/mass spring system and evaluating data to determine accuracy.

		Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
	Intent for the topic	Induction Cover required theory and skills for the qualification	Fragrance project	Architecture project Epoxy resin casting Mock exams	NI	EA	NEA Mock exams
Product design	Content mapping	H&S, regulations, risk assessment, PPE Theory – plastics & plastic forming, tools, jigs/manufacturing aids, performance characteristics/ properties, machining processes, sketching/ presentation techniques CAD CAM, finishes, maths for engineering metal properties, joining and heat treatments & manufacture, human factors.	CAD 2D design Scales of production Intro to project - Brief, task analysis, mood boards, product analysis Manufacturing industries, designing for the environment, planning, specification, ideas, design movements/designers, digital technologies, development design, CAD/CAM Packaging design and development	Foam board modelling, marketing and budgeting, drawing methods (isometric and Planometric) Resin casting Review project  Theory – composites, timber, lamination, wood joining, finishing techniques, papers and boards, printing techniques, product lifecycle.	Investigation into NEA project Sketching/ presentation skills Photoshop skills 2D and 3D CAD  Exam practice — recap /revise past theory  NEA — identify design possibility & company/client. Task analysis	NEA – Task analysis Research and analysis,	NEA — Research and analysis
	Key skills developed	Workshop tools and machines and organisation in practical, plastic forming methods. Using Jigs, Drawing techniques, CAD CAM, finishes	Design and analysis skills – iterative approach Use of IT - CAD/CAM (Photoshop, Techsoft, Laser cutting, 3D printing)	Workshop tools, machines and organisation in practical. Shaping and finishing techniques.	Design /drawing skills Use of IT for CAD and photoshop software.	Use of IT for NEA research/analysis and presentation.	Use of IT for NEA research/analysis and presentation.

	Psychology Pa methods and infant attachr	apers 1 and 2. By the end the ethics of research; So ments are formed and the	l of Year 12, students will ocial influence including on einfluence they have on	h the knowledge, underst have developed knowled conformity and obedience later life; and psychopath all, they should be critical	ge and understanding of e; human memory, how it ology, including theories	a range of Psychology top works and why sometime	pics including; Research les it doesn't; how
		Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
hology	Intent for the topic	Teacher A: Research m Teacher B: So	nethods in psychology. cial Influence.	Teacher A: Continuation of research methods, before moving onto approaches and biopsychology.  Teacher B: Memory.  Attachment.		Teacher A: Continuation of approaches and biopsychology.  Teacher B: Psychopathology.	
Psyc	Content mapping	Research methods:  Experiments, Observations and self-report techniques. Ethics and Sampling  Social influence:  Conformity, obedience, minority influence and Social Change.		Approaches and biopsychology: Conformity, obedience, minority Influence and Social Change Memory: Models of memory, reasons for forgetting and Eyewitness testimony Attachment: Explanations of attachment, cultural variations, maternal deprivation and institutionalisation		Approaches and biopsychology: Conformity, obedience, minority Influence and Social Change Psychopathology: Definitions of abnormality, Phobias, Depression and OCD	

**Overall curriculum intent for year 12:** The Cambridge Technical in Sport and Physical Activity provides students with practical opportunities to develop relevant core knowledge and skills. Students further develop their skills through specialist pathways that help them deliver sport and physical activity to a wide range of participants

Unit 1 – Body systems and the effects of exercise (Exam) 90GLH

Unit 2 – Sport coaching and activity leadership (coursework) 90GLH

	Unit 2 – Sport coaching and activity leadership (coursework) 90GLH							
		Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6	
Sport	Intent for the topic	1: LO1 – Understanding the skeletal system in relation to exercise and physical activity  2: LO1 – Roles and responsibilities LO2 – Understand the principles of coaching LO3 – Use methods to improve skills/techniques in sport	1: LO1 – Understanding the skeletal system in relation to exercise and physical activity  2: LO4 – Plan sports sessions  LO5 – Prepare sports environments  LO6 – Deliver sport sessions  LO7 – Review sports sessions	1: LO2 – Understand the muscular system in relation to exercise and physical activity  2: LO6 – Deliver sport sessions  LO7 – Review sports sessions	1: LO3 – Understand the cardiovascular system in relation to exercise and physical activity  2: LO6 – Deliver sport sessions LO7 – Review sports sessions	1: LO4 – Understand the respiratory system in relation to exercise and physical activity 2: LO6 – Deliver sport sessions LO7 – Review sports sessions	1: L05 – Understand the different energy systems in relation to exercise and physical activity  2: L06 – Deliver sport sessions  L07 – Review sports sessions	
	Content mapping	1.1 Skeleton 1.2 Bones 1.3 Joints 1.4 Synovial Joints 2: LO1, LO2, LO3	nn skeleton	2.1 Muscle at synovial joints 2.2 Muscles function 2.3 Contractions 2.4 Fibres 2.5 Muscle performance 2.6 Impact of activity on muscles 2: LO6, LO7	3.1 Structure of the heart 3.2 SV, HR, Cardiac output 3.3 Vessels 3.4 Blood 3.5 Vascular Shunt 3.6 Impact of physical activity on the CV system 2: LO6, LO7	4.1 Lungs 4.2 Respiratory muscles 4.3 Mechanics of breathing 4.4 Gaseous exchange 4.5 Tidal volume 4.6 Impact of physical activity on the respiratory system 2: LO6, LO7	5.1 The three energy systems 5.2 Energy continuum 5.3 Recovery process 2: LO6, LO7	