Year 12 Curriculum Knowledge At A Glance



Kings Langley School Unlocking Potential for Life

YEAR 12	1	2 3	4	5	6	
Art	Foundation	Studies Programme – Introduction to A-L	evel Art	Unit 1 – Personal Portfolio NEA		
Biology	• Topic 5 – Plasma • Topic 3 · membranes. • molecul	surfaces and breat - Cell divisions. - Biological surfaces and breat • Topic 10 – Classific and evolution.	hing. animals.	 Topic 9 – Transport in plants. Topic 12 – Communicable diseases. 	 Revision and preparation for end of year assessments. Topic 23 – Ecosystems. 	
Business Studies	What is a business? Understanding the nature and business Understanding different businesses and external environment. Managers, leadership, and decision maki Understanding management, I decision making Understanding management d Understanding the role and im stakeholders	ecision making Setting fina Analysing fina Making fina Making fina flow and properties Decision-making to in Setting ope Analysing coloring	mprove operational performance. erational objectives operational performance efficiency and productivity quality	Decision-making to improve marketing performance Setting marketing objectives Understanding markets and customers Making marketing decisions; segmentation targeting and positioning Making marketing decisions; using the marketing mix Decision-making to improve human resource performance. Setting human resource objectives Analysing human resource performance Improving organisational design and managing the human resource flow Improving motivation and engagement		
Computer Science	2.1 Elements of computational thinking	input, output, a Structure a Types of pr Input, outp 1.2 Software and so 1.2.1. Oper 1.2.2. Appl 1.2.3. Intro 1.3 Exchanging data 1.3.1 Datab	 1.1 The characteristics of contemporary processors, input, output, and storage devices Structure and function of the processor Types of processors Input, output, and storage 1.2 Software and software development 1.2.1. Operating Systems 1.2.2. Applications generation 1.2.3. Introduction to programming 1.3 Exchanging data 1.3.1 Databases 1.3.2 Networks 		etures and algorithms and cultural issues related legislation oral, and cultural issues	

Chemistry	 Topic 2 – Atoms, ions and compounds. Topic 3 – Amount of substance. Topic 5 – Electrons and bonding. Topic 6 – Shapes of molecules and intermolecular forces. 	 Topic 4 – Acids and redox. Topic 7 – Periodicity. Topic 11 – Basic concepts of organic chemistry. Topic 12 – Alkanes. 	Topic 8 – Reactivity trends Topic 13 – Alkenes.	Topic 9 – Enthalpy change. Topic 14 – Alcohols Topic 15 – Halo alkanes	 Topic 10 – Reaction rates and equilibrium. Topic 16 – Organic synthesis. Topic 17 – Spectroscopy. 	Revision and preparation for end of year assessments. Topic 18 – Rates of reactions.
Drama	Intermolectial forces. Introduction to the course Component 1 Set Text A 'Accidental Death of an Anarchist' Practitioners	Component 1 Set Text A 'Accidental Death of an Anarchist' Section C Response to Live Review Component 2 Mock Devising project	Component 3 Extract 1 Reflective Report Practitioners	Component 3 Extract 2 Reflective Report	Component 2 Creating Drama & Working Notebook	Component 2 Creating Drama & Working Notebook
Economics	 Nature of Economics How markets work Market failure 		Government intervention Quantitative methods Measures of economic performance Aggregate demand (AD) Aggregate supply (AS) National Income		Measures of economic performance Economic growth Macroeconomic objectives and policies	
English	The Great Gatsby Othello		The Great GatsbyPoetry AnthologyOthelloUnseen Poetry		 Poetry Anthology NEA The Color Purple or The Handmaids Tale 	
French	• Unit 1 Family • Unit 4 Music	Unit 2 World of WorkUnit 5 Media	Unit 3 TourismUnit 6 French Speaking World	Assessment and Feedback	Novel and Film	Revision Assessment and Review Newspaper Day
Further Maths	Complex numbers Matrices Linear transformations Momentum and impulse Work, energy and power Elastic collisions in one dimension	Matrices Proof by induction Series Vectors Elastic collisions in one dimension Elastic collisions in two dimensions	Volumes of revolution Discrete random variables The Poisson distribution	Roots of polynomials Geometric and negative binomial distributions Hypothesis testing Chi squared tests	Chi squared tests Probability generating functions	Complex numbers (A2) The central limit theorem

Geography	CoastsGlobalisation		Regeneration Fieldwork and data handling skills Tectonics		Regeneration Tectonics Fieldwork and data handling skills	Fieldwork and NEA preparation
Politics	UK Democracy and participationUK Political Parties	UK Political PartiesUK Electoral SystemsUK Voting Behaviour	The role of the media in the UKThe UK Constitution	Parliament The Prime Minister and the Executive	The relationship between branches of UK government Liberalism	Conservatism Socialism Multiculturalism
History	 The USA: The changing political environment, 1917–80 South Africa: The response to Apartheid 1948 - 1959 	 The USA: The quest for civil rights, 1917–80 South Africa: Radicalisation of resistance and the consolidation of National Party power, 1960 - 68 	 The USA: Society and culture in change, 1917–80 South Africa: Redefining resistance and challenges to National Party power, 1968 - 83 	 The USA: The changing quality of life, 1917–80 South Africa: The end of apartheid and the creation of the 'rainbow nation', 1984 - 94. 	The USA: The changing quality of life, 1917–80 South Africa: Revision Coursework - Research and skills	The USA: Historical interpretations: What impact did the Reagan presidency have on the USA in the years 1981–96? Coursework - Research and skills
Mathematics	 Basic skills assessment Differentiation Quadratics Data collection Measures of location and spread Representation of data Correlation 	 Equations and inequalities Graphs and transformations Probability Statistical distributions 	 Straight line graphs Integration Hypothesis testing Modelling in mechanics Constant acceleration Forces and motion 	 Algebraic methods Circles Variable acceleration 	• Circles • Trigonometric ratios	Trigonometric identities and equations Binomial expansion 1 Exponentials and logarithms Vectors Yr2 Algebraic methods Functions and graphs Sequences and series
Music	 Pop and Rock 1960- 2000 Composition skills Performance skills 	Pop and Rock 1960-2000Composition 1Performance	Western Classical Tradition: development of the symphony Composition 1 Performance		Western Classical Tradition: set works (Haydn) Composition 1 Performance	
PSHE	Study skillsFertility and IVFAdoptions and fosteringBinge drinking	Different types of relationshipsConsent and rapeBeing safe online	FGM and human rigjhtsRevision skillsUnifrog	Employment and volunteering Budgeting Mental health	Inline gambling Domestic abuse UCAS	Cancer Managing money Credit cards
Photography	Foundation Studies		'Yesterday, Today, Tomorrow' – Part 1	'Yesterday, Today, Tomorro	rrow' – Part 2	
Physical education	 Anatomy & physiology Skeletal System Muscular System Acquisition of skill Classification of Skill Types of practice Socio-cultural studies 	 Cardiovascular system Methods of Practice The Emergence and Evolution of Modern Sport 	 Respiratory System Diet and nutrition Skill Transfer Learning Theories The Emergence and Evolution of Modern Sport 	Diet and nutrition Preparation & training methods Stages of Learning Guidance and feedback	Biomechanical Principles – Newton's laws & the use of technology Sports Psychology Individual differences Global Sporting Events	Biomechanical principles - Stability and Lever Systems Group and team dynamics Goal Setting

	 The Emergence and Evolution of Modern Sport 			The Emergence and Evolution of Modern Sport		Global Sporting Events
Physics	 Topic 2 – Foundations in physics. Topic 3 – Motion. Topic 8 – Charge and current. Topic 9 – Energy, power and resistance. 	 Topic 3 – Motion. Topic 4 – Forces in action. Topic 9 – Energy, power and resistance. Topic 10 – Electrical circuits. 	 Topic 4 – Forces in action. Topic 11 – Waves 1 	 Topic 5 – Work, energy and power. Topic 6 – Materials. Topic 11 – Waves 1 Topic 12 – Waves 2 	 Topic 7 – Laws of motion and momentum. Topic 12 – Waves 2 Topic 13 – Quantum physics. 	 Revision and preparation for end of year assessments. Topic 14 – Thermal physics.
Product Design	Introduction – The first two terms are about building up student's skills through a series of small- scale design and make tasks. These will be based about the possible project routes they could take for their NEA. Theory will be interleaved in during the course. Interior design project looking at developing the sixth form study area. Research and design development. Lighting project. Theory - Factors influencing the development of products (Unit 5) Anthropometrics, Ergonomics, Design movements. Materials (Unit 1) Performance characteristics of	Interior design project looking at developing the sixth form study area. Manufacture and evaluation. Lighting project. Theory - Processes, techniques and specialist tools (Unit 3) Digital Technologies (Unit 4) Manufacturing processes	Toothbrush project – Introduction to 3D printing and Fusion 360. The first part of this product looks at product design and development. Till roll dispenser. Making use of mechanical fixtures and fittings. Learning about different joining and production methods. Theory - Effects of technological Developments (Unit 6) Features of manufacturing industries (Unit 8)	Toothbrush project – The second part of this project looks at packaging, branding, marketing and promotion. Till roll dispenser. Theory - Designing for maintenance and the cleaner environment (Unit 9)	Begin NEA Identification and investigation of a design possibility. Investigation of needs and research	NEA – Specification and initial generation of design ideas
Psychology	materials (Unit 2) • Approaches		• Attachment (Finish)		Developathology (Finish)	\
Psychology	ApproachesResearch MethodsSocial InfluenceAttachment (Start)		Attachment (Finish)MemoryPsychopathology (Start)		Psychopathology (Finish)Biopsychology Year 13 (start)	



Religious Education	Philosophy (Paper 1) • Ancient philosophical influences • Soul mind and body Ethics (Paper 2) • Natural law • Situation ethics	Philosophy (Paper 1)	Philosophy (Paper 1) Religious experience The problem of evil Ethics (Paper 2) Euthanasia Business ethics	Developments in Christian thought (Paper 3) • Augustine's teaching on human nature • Knowledge of God's existence	Developments in Christian thought (Paper 3) • Death and the afterlife • Christian moral principles	Developments in Christian thought (Paper 3) • The person of Jesus Christ • Christian moral action
Sociology	 Education Methods in Context Theory and Methods (Start) 		Theory and MethodsFamilies and Households		Theory and Methods (Revise)	
Spanish	Unit 1 Changes in Family Culture Unit 4 Music	Unit 2 World of Work Unit 5 Media and Communications	Trial examinations and Feedback	Unit 3 Impact of Tourism Unit 6 Role of Customs and Traditions	Film Study Novel Study Revision	Final Assessment Preparation Newspaper Day

Year 13 Curriculum Knowledge At A Glance

YEAR 13	1	2	3	4	5	6
Art	Unit 1 – Persona	al Portfolio (NEA)	Unit 2 – Extern	Unit 2 – Externally Set Task (EST)		

Biology Business Studies	 Analysing internal Analysing overall p Analysing the exte opportunities and Analysing the exte opportunities and Analysing the exte opportunities and technological Analysing the exte opportunities and environment 	objectives and strategy position; SWOT ratio analysis erformance rnal environment to assess threats; political and legal rnal environment to assess threats; economic change rnal environment to assess threats; social and rnal environment to assess threats; the competitive options; investment	compete in and w Strategic position compete Managing strategic change Managing change Managing organis	n; choosing which markets to what products to offer ing; choosing how to estional culture ic implementation	 Revision and preparation for A level examinations. PAG admin Exam technique and revision	• Revision & Exams
Chemistry	 Assessing a change Assessing innovati Assessing internati Assessing greater i Topic 19 – Equilibrium. Topic 20 – Acids, bases and pH. Topic 25 – Aromatic compounds. Topic 26 – Carbonyls and carboxylic acids. 	on	 Topic 23 – Redox and electrode potentials. Topic 28 – Organic synthesis. 	 Topic 24 – Transition elements. Topic 29 - Chromatography and spectroscopy 	Revision and preparation for A level examinations. PAG admin	• Revision & Exams
Drama	Component 1 Set Text A 'Accidental Death of an Anarchist', Set Text B 'Our Country's Good' Revision Set Text A and Section C Response to a Live Review	Component 2 Devising and Logs Revision for all sections for Component 1.	Component 3 Extract 3 Reflective Report Practical exam to examiner	Component 1 Revision Set Text A 'Accidental Death of an Anarchist' Set Text B 'Our Country's Good' Section C Response to Live Theatre	Component 1 Revision Set Text A 'Accidental Death of an Anarchist' Set Text B 'Our Country's Good' Section C Response to Live Theatre	Exams

	Practitioners					
Economics	 Business growth Revenues, costs and profits Market structures Government intervention 		Labour market A global perspective International economies Role of the state in the macroeconomy Poverty and inequality Emerging and developing economies		The financial sector Revision and exams	
English	Feminine GospelsA Streetcar Named Desire	& Unseen Prose	A Streetcar Named Desire The Handmaids Tale/The		Revision and exams	
Further Maths	Complex numbers Series Methods in calculus Central limit theorem Quality of tests	Volumes of revolutionPolar coordinatesHyperbolic functions	Methods in differential equations Mechanics and statistics revision	Modelling with differential equations Mechanics and statistics revision	Revision and exams	Revision and exams
Geography	Carbon and energy policy Superpowers – China and India		Migration and sovereignty Water systems and water security Superpowers		Revision and exams	
Government & politics	US Politics - Constitution and Federalism US Politics - Legislature Political Ideologies		 US Politics - Executive US Politics - Judiciary Political Ideologies 		Comparative Theories Revision and Exams	Revision and Exams
History	 The British Empire: The loss of the American colonies, 1770–83 Coursework – Research and Resource Record 	 The British Empire: The birth of British Australia, 1788–1829 The British Empire: Canada and the Durham Report, 1837–40 Coursework – First and Second Drafts 	 The British Empire: the British in India, 1829– 58 The British Empire: he Nile valley, 1882–98 Coursework – Final draft 	The British Empire: The changing nature and extent of trade The British Empire: The changing nature of the Royal Navy Revision: The USA & South Africa	Revision and exams	Revision and exams
Mathematics	Binomial expansion 2 Radians Trigonometric functions	 Trigonometry and modelling Parametric equations Differentiation Numerical methods Integration 	Vectors Regression and correlation Conditional probability	 The normal distribution Moments Forces and friction Projectiles Applications of forces Further kinematics 	• Revision and exams	Revision and exams
Music	 Twentieth Century: set works Composition 2 (set brief) Performance 	• Composition 2 • Revision of exam topics	Composition 2 Performance Revision of exam topics	• Exam Revision and Technique	Revision and Exams	Listening Exam
PSHE	UCASMoney mattersBank loansLiving away from home	Consent and rapeSafe drivingExam stress and well being	Revision – critical thinking Party drugs Trans LGBT+ Animal rights	The environment Revision and time management Budgeting		

Photography	'Yesterday, Today, Tomorro	ow' – Part 3	Externally Set Task			
Physical education	 Contempory issues Ethics and deviance in sport Anatomy and physiology Energy for Exercise Acquisition and sports psychology Memory models 	Commercialisation and Media Recovery, altitude and heat Injuries Attribution in Sport Confidence in sport	 Routes to sporting excellence in the UK Injury prevention and the rehabilitation of injury Self-efficacy in sports performance Leadership in sport 	Modern technology in Sport – its impact on Elite level sport, participation, fair outcomes and entertainment Linear motion Angular motion Fluid mechanics and projectile motion Stress management	 Examination Revision NEA External Practical Assessment Examination Revision NEA External Practical Assessment Examination Revision NEA External Practical Assessment 	• Exam
Physics	 Topic 16 – Circular motion. Topic 17 – Oscillations. Topic 21 – Capacitance. Topic 22 – Electric fields. 	 Topic 18 – Gravitational fields. Topic 19 – Stars. Topic 23 – Magnetic fields. Topic 24 – Particle physics. 	 Topic 20 – Cosmology. Topic 24 – Particle physics. 	 Topic 20 – Cosmology. Topic 27 – Medical imaging. Topic 25 – Radioactivity. Topic 26 – Nuclear physics. 	Revision and preparation for A level examinations. PAG admin	Revision & Exams
Product Design	NEA: Design ideas and development Theory: Further processes and techniques	NEA: Final design, planning and making of final prototype Theory: Safe working practices, Potential hazards and risk assessment Information handling, modelling and forward planning	NEA: Making of final prototype Theory: Current legislation	NEA: Evaluating own design and prototype Theory: Final exam preparation	Final Examination	
Psychology	Biopsychology Research Methods and Statistics Addiction Cognition or Relationships (Start)		 Cognition or Relationships (Finish) Schizophrenia Issues and Debates (Start) 		• Issues and Debates (Finis	h)
Religious Education	Philosophy (Paper 1) The nature or attributes of God Religious Language: negative, analogical or symbolic Ethics (Paper 2) Meta ethical theories Conscience	Philosophy (Paper 1) Religious language: Twentieth century perspectives and philosophical comparisons Ethics (Paper 2) Sexual ethics	Developments in Christian thought (Paper 3) • Religious Pluralism and Theology • Religious pluralism and society • Gender and theology • The challenge of secularism	Developments in Christian thought (Paper 3) Gender and society Liberation theology and Marx	Revision and exams	
Sociology	Media or Beliefs in Society		Crime and DevianceTheories and Scientific M	ethod	• Theory and Methods (Re	vise)

Spanish	Unit 1 Changes in Family	Unit 2 World of Work	Trial examinations and	Unit 3 Impact of Tourism	Final Examinations	
	Culture	Unit 5 Media and	Feedback	Unit 6 Role of Customs		
	Unit 4 Music	Communications		and Traditions		
				Revision		