



Year 9 Curriculum Map

2017 - 2018

TKA English Year 9 Programme of Learning – 2017/18

Half-term	Topic	Text studied based on 'Conflict'
Autumn I	'Lord of the Flies' by William Golding	Pupils will read a novel as a class and explore its genre, themes, structure, characterisation and language. Ideas such as nature vs nurture, evil, power and leadership will be discussed and pupils will practise GCSE style questions relating to the novel.
Autumn II		
Spring I	'Romeo and Juliet' by William Shakespeare	Pupils will explore Shakespeare's ideas of tragedy and conflict through the plot, language, stage directions, theme and characterisation of the play. They will closely analyse the language, form and structure used by Shakespeare to create meanings and effects, using relevant subject terminology. Pupils will have the opportunity to perform and improvise key scenes and hot seat characters in Drama lessons.
Spring II		
Summer I	Dare to Scare - Gothic Writing	A range of fiction ranging from 'The Demon Headmaster' 'The Red Room', 'The Woman in Black', 'The Monkey's Paw' and 'Dracula' as well as writers like Charlie Higson, Patrick Ness will be used to explore the Gothic genre.
Summer II	GCSE poetry cluster - Power and conflict	Pupils will be introduced to the AQA English Literature GCSE poetry cluster of conflict which includes: John Agard: Flag, Simon Armitage: Extract from Out of the Blue Owen Sheers: Mametz Wood Robert Minhinnick: The Yellow Palm Imtiaz Dharker: The Right Word Choman Hardi: At the Border, Carson: Belfast Confetti Jane Weir: Poppies Wilfred Owen: Futility Alfred, Lord Tennyson: The Charge of the Light Ted Hughes: Bayonet Charge

		Margaret Postgate Cole: The Falling Leaves Stevie Smith: 'Come On, Come Back E. E. Cummings: next to of course god Ted Hughes: Hawk Roosting
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TKA Mathematics Year 9 Programme of Learning – 2017/18

Half-term	Topic	Main Themes
Autumn I	Algebra	<ul style="list-style-type: none"> • Changing the subject of a formula • Simplifying, including simple surd arithmetic • Factorisation (inc. quadratic expressions) • Solve quadratic equations • Operations with algebraic fractions
Autumn II	Graphs & Proportion	<ul style="list-style-type: none"> • Cartesian coordinates • Linear graphs, gradients and intercepts • Rearrange equations to $y = mx + c$ or $ax + by = c$ • Midpoints and lengths of line segments • Modelling and estimating with graphs • Direct and inverse proportion • Quadratics graphs • Distinguish between sequences, including quadratic, through differences and ratios of subsequent terms
Spring I	Statistics	<ul style="list-style-type: none"> • Comparing two data sets • IQR • Mean of grouped data • Scatter graphs • CF graphs, box plots
Spring II	2D Geometry	<ul style="list-style-type: none"> • Enlargements • Similarity • Trigonometry (RA triangles)
Summer I	Equations and inequalities	<ul style="list-style-type: none"> • Construct and solve Inequalities (one unknown) • Show inequalities on a number line • Simultaneous linear equations
Summer II	2D Geometry	<ul style="list-style-type: none"> • Constructions (bisectors & perpendiculars) • Loci • Bearings • Prove and use basic circle theorem (tangent, semi-circle) • Translations, reflections, rotations

TKA Science Department Year 9 Programme of Learning – 2017/18

Chemistry, Physics and Biology are taught on rotation during the year

Biology

Half-term	Topic	Main Themes
<p>Autumn I 8 Exa 8 Kilo 8 Peta 8 Mega 8 Tera</p> <p>Spring I 8 Giga</p>	<p>Unicellular organisms</p>	<ul style="list-style-type: none"> ● Unicellular or multicellular ● Microscopic fungi ● Bacteria ● Protoctists ● Decomposers and carbon
<p>Autumn I & II 8 Exa 8 Kilo 8 Peta 8 Mega 8 Tera</p> <p>Spring I 8 Giga</p>	<p>Genetics and evolution</p>	<ul style="list-style-type: none"> ● Variation ● Probability ● DNA ● Genes and extinction ● Natural selection ● Recreating animals
<p>Autumn I & II 8 Exa 8 Kilo 8 Peta 8 Mega 8 Tera</p> <p>Spring II 8 Giga</p>	<p>Plant Growth</p>	<ul style="list-style-type: none"> ● Reactions in plants ● Plant adaptations ● Plant products ● Growing crops ● Farming problems ● Organic farming
<p>Summer I & II All classes</p>	<p>AQA GCSE: Cell biology</p>	<p>Cell structure</p> <ul style="list-style-type: none"> ● Eukaryotes and prokaryotes ● Animal and plant cells ● Cell specialisation ● Cell differentiation ● Microscopy <p>Cell division</p> <ul style="list-style-type: none"> ● Chromosomes ● Mitosis and the cell cycle ● Stem cells <p>Transport in cells</p> <ul style="list-style-type: none"> ● Diffusion ● Osmosis ● Active transport

Chemistry

Half-term	Topic	Main Themes
Autumn I 8 Exa 8 Giga 8 Kilo 8 Mega Spring I 8 Peta 8 Tera	Rocks	<ul style="list-style-type: none"> • Rocks and their uses • Igneous and metamorphic rocks • Weathering and erosion • Sedimentary rocks • Theories in geology • Materials in the Earth
Autumn I & II 8 Exa 8 Giga 8 Kilo 8 Mega Spring I 8 Peta 8 Tera	Making materials	<ul style="list-style-type: none"> • Materials of the future • Ceramics • Polymers • Composite materials • Problems with materials • Recycling materials
Autumn II & Spring I 8 Exa 8 Giga 8 Kilo 8 Mega Spring II 8 Peta 8 Tera	Reactivity	<ul style="list-style-type: none"> • Types of explosion • Reactivity • Energy and reactions • Displacement • Extracting metals
Summer I & II All classes	AQA GCSE: Atomic structure and the periodic table	A simple model of the atom <ul style="list-style-type: none"> • Atoms, elements and compounds • Mixtures • Development of the model of the atom • Electrical charges of sub-atomic particles • Size and mass of atoms • Relative atomic mass • Electronic structure The periodic table <ul style="list-style-type: none"> • Development and organisation of the periodic table • Metals and non-metals • Group 0 - noble gases • Group 1 - alkali metals • Group 7 - halogens

TKA Science Department Year 9 Programme of Learning – 2017/18

Physics

Half-term	Topic	Main Themes
Autumn I 8 Giga 8 Peta 8 Tera Spring I 8 Exa 8 Kilo 8 Mega	Earth and Space	<ul style="list-style-type: none"> ● Gathering the evidence ● Seasons ● Magnetic Earth ● Gravity in space ● Beyond our solar system ● Studying space
Autumn I & II 8 Giga 8 Peta 8 Tera Spring I 8 Exa 8 Kilo 8 Mega	Forces and motion	<ul style="list-style-type: none"> ● Moving objects ● Forces and movement ● Energy for movement ● Speed ● Turning forces ● Machines ● Supplying the energy
Autumn II & Spring I 8 Giga 8 Peta 8 Tera Spring II 8 Exa 8 Kilo 8 Mega	Force fields and electromagnets	<ul style="list-style-type: none"> ● Mission to Mars ● Force fields ● Static electricity ● Current electricity ● Resistance ● Electromagnets ● Humans in space
Summer I & II All classes	AQA GCSE: Energy	<p>Energy changes and ways that energy is stored</p> <ul style="list-style-type: none"> ● Energy stores and systems ● Changes in energy ● Energy changes in systems ● Power <p>Conservation and dissipation of energy</p> <ul style="list-style-type: none"> ● Energy transfers in a system ● Efficiency <p>National and global energy resources</p> <ul style="list-style-type: none"> ● Non-renewable energy resources ● Renewable energy resources

TKA Art Year 9 Programme of Learning – 2017/18

Half-term	Topic	Main Themes
Autumn I	Presentation skills Sketchbooks Personal studies Cubism	<ul style="list-style-type: none"> ● How to make a sketchbook ● How to create a personal study ● Research skills ● Responding to Cubism <p>Outcomes: well presented sketchbooks, final piece responding to Cubism</p>
Autumn II	Crash Course in History of Art (1865-)	<ul style="list-style-type: none"> ● Key movements in Art History ● -isms (from Impressionism to Postmodernism) ● Artist research <p>Outcomes: personal response to a chosen Period</p>
Spring I	Fantastic Forms Surrealism	<ul style="list-style-type: none"> ● Surrealism ● Imaginative work ● Artist research ● Personal study <p>Outcomes: personal response to Surrealism</p>
Spring II	The Everyday Pop Art	<ul style="list-style-type: none"> ● Pop Art ● Printing ● Artist research ● Personal study <p>Outcomes: personal response to Pop Art</p>
Summer I	Design - construction Utopian cities	<ul style="list-style-type: none"> ● Working to a brief ● Drawing to plan ● The built environment ● Construction/model making <p>Outcomes: collaborative model cityscape</p>
Summer II	Responding to a theme: Metamorphosis	<ul style="list-style-type: none"> ● Responding to a theme ● Independent study ● Gathering ideas ● Developing work to a final piece ● Recording process ● Exam practice - working towards KS4 <p>Outcomes: individual response to theme</p>

		<i>Whole school exhibition; a celebration of creativity @ Kingston College</i>
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TKA Design & Technology Year 9 Programme of Learning – 2017/18

Half-term	Topic	Main Themes
Autumn I	Product Design Question	<ul style="list-style-type: none"> ● Target setting ● Developing designs ● Drawing in 2D/3D and in colour ● Using dimensions
Autumn II	Drawing & Rendering in Isometric	<ul style="list-style-type: none"> ● Line weight ● Drawing in isometric ● Drawing basic shapes ● Crating ● Rendering – surface texture & colour ● Joining shapes
Spring I	Cutting, Shaping & Bending Plastic (Pencil Stand)	<ul style="list-style-type: none"> ● Measuring in mm ● Prototyping ● Marking out ● Saw identification & use ● Heating plastic - bonds ● Bending plastic ● Pillar drill use ● Generating a surface finish
Spring II	Materials Investigation	<ul style="list-style-type: none"> ● Group work ● Research skills ● Key information identification ● Page layout
Summer I	Mechanisms & Ratios	<ul style="list-style-type: none"> ● Gears ● Ratios ● Mechanical Advantage ● Leverage ● Driver and driven gears
Summer II	Solar Dragster Construction	<ul style="list-style-type: none"> ● Alternative energy ● Fossil fuels ● Pairs work ● Gears ● Pulleys ● Streamlining ● Step-by-step ● Dragster construction ● Racing ● Speed calculations

TKA Digital Literacy Year 9 Programme of Learning – 2017/18

Half-term	Topics	Themes
Autumn I	Coding with Python	<ul style="list-style-type: none"> ● Basic principles transferred from Small Basic ● Arithmetic and selection ● Using algorithms ● Loops ● Searching using code
Autumn II	Using data	<ul style="list-style-type: none"> ● Consolidation of previous learning for spreadsheets ● Use of functions in spreadsheet formulae ● Using conditionals in spreadsheet logic ● Editing and manipulating large data tables to answer questions ● Aggregating data using PivotTables ● Using lookups to improve efficiency
Spring I	Physical computing	Computer Science Discoveries: Unit 6 <ul style="list-style-type: none"> ● Innovations in computing ● Event types ● Getters and setters ● Lists and FOR loops ● Sensors and analogue input
Spring II	Python next steps	<ul style="list-style-type: none"> ● Loops continued ● Lists ● Procedures ● Functions ● Consolidation of programming principles
Summer I	Database development	<ul style="list-style-type: none"> ● Database theory and key vocabulary ● Using data tables ● Data types ● Queries ● User interfaces and input forms ● Designing and creating database reports
Summer II	Problem solving with code	<ul style="list-style-type: none"> ● Decomposing a problem and developing algorithms ● Writing pseudocode ● Coding independently

TKA Geography Year 9 Programme of Learning – 2017/18

Half-term	Topic	Main Themes
Autumn I	Development	<ul style="list-style-type: none"> ● What is development? ● What causes different levels of development? ● How can we measure development in countries? ● How developed is Ghana and why? ● Is Third World debt fair?
Autumn II	China	<ul style="list-style-type: none"> ● What is China like? ● How do different areas of China vary in quality of life? ● Is China and MEDC or LEDC? ● Where do people live in China and why? ● What is the One Child Policy and was it a success? ● Is the Three Gorges Dam sustainable?
Spring I	Tectonic Hazards - Volcanoes	<ul style="list-style-type: none"> ● The tectonic plates ● What causes volcanoes? ● What are the hazards in a volcanic eruption? ● How can we protect people from volcanic eruptions? ● Mt St Helens ● Montserrat
Spring II	Tectonic Hazards - Earthquakes	<ul style="list-style-type: none"> ● What causes earthquakes? ● What are the hazards in an earthquake? ● How can we protect people from earthquakes? ● The San Andreas Fault (LA) ● Japan ● Bam - Iran
Summer I	Environments and Adaptations	<ul style="list-style-type: none"> ● Biomes of the world ● What is the rainforest climate like? ● How have plants and animals adapted to the rainforest? ● What impact are humans having on the rainforest and how can we protect it? ● What is the desert climate like? ● How have plants and animals adapted to be able to survive in the desert? ● What impact is desertification having on people and how can we prevent it from happening?
Summer II	GCSE Geography	<ul style="list-style-type: none"> ● Introduction to GCSE Geography

TKA History Year 9 Programme of Learning – 2017/18

Half-term	Topics	Themes
Autumn I	Power & Conflict WW1	<ul style="list-style-type: none"> ● Welcome to the twentieth century ● Who was to blame for Titanic sinking? ● How did a single bullet spark a World War? ● Was it every man's duty to fight in the Great War?
Autumn II	Power & Conflict Democracy and Dictatorship	<ul style="list-style-type: none"> ● How did the Great War change the accepted world order? ● Democracy or Dictatorship? ● Was the Russian Revolution inevitable?
Spring I	Power & Conflict Democracy and Dictatorship	<ul style="list-style-type: none"> ● Why did democracy fail in Germany and Italy? ● How did the Holocaust happen? ● Why did democracy survive in the USA?
Spring II	Power & Conflict World War 2	<ul style="list-style-type: none"> ● Was appeasement the right policy? ● What was it like to fight in World War 2? ● Should the atomic bomb have been dropped?
Summer I	Post-war world	<ul style="list-style-type: none"> ● How did World War 2 change the accepted world order? <ul style="list-style-type: none"> ○ Cold War ○ Peaceful protest v violent protest
Summer II	Changing power and society	<ul style="list-style-type: none"> ● How did culture and society change in the post-war world? <ul style="list-style-type: none"> ○ 1950s to 2000 ● Who/What had the biggest impact on the twentieth century?

Music Year 9 Programme of Learning – 2017/18

Half-term	Topic	Main Themes
Autumn I	Samba 1	<ul style="list-style-type: none"> ● Exploration of music in Brazil and its cultural significance. ● Development of performance skills using traditional Brazilian instruments. ● Supporting performance work through regular rhythmic dictation, helping to develop musical literacy.
Autumn II	Samba 2	<ul style="list-style-type: none"> ● A continuation of topic studied in previous half term. ● Building on the basic skills developed in Samba 1, students will have more freedoms to create their own rhythms and to direct the Samba ensemble.
Spring I	Dance Music-sequencing	<ul style="list-style-type: none"> ● Students will learn about the component parts of dance music and how they can be used to develop a piece of dance music. ● Pupils will learn how to sequence a performance of a well known dance song using cloud based software.
Spring II	Dance Music-composition	<ul style="list-style-type: none"> ● Based on the skills developed in the first half term of Spring 1, students will be composing their own piece of dance music using cloud based software.
Summer I	Pop Music	<ul style="list-style-type: none"> ● Students learn music that they choose, like and identify with ● Students learning by listening to recordings. ● Assimilating skills and knowledge in personal ways according to musical preferences, starting with whole 'real world' pieces of music. ● Maintaining a close integration of listening, performing, improvising and composing
Summer II	Songwriting	<ul style="list-style-type: none"> ● Students will explore songwriting, having developed performance skills in the previous unit. The aim is that this prior learning will allow pupils to compose with more confidence.

TKA Spanish Year 9 Programme of Learning – 2017/18

Half-term	Topic	Main Themes
Autumn I	Tourism	<ul style="list-style-type: none"> ● Describing holiday homes. ● Describing what one can do in a particular Spanish city. ● Giving directions. ● Talking about where you would like to go and what sort of places you prefer.
Autumn II	Film: Carlitos y el campo de los sueños	<ul style="list-style-type: none"> ● Talking about what type of films you enjoy. ● Predicting what you think will happen next in the film and describing what has already happened. ● Talking about your favourite characters and favourite parts of the film. ● Writing a synopsis and review.
Spring I	Future & careers	<ul style="list-style-type: none"> ● Describing what tasks and qualities are involved in a particular job. ● Saying what job you would like to do. ● Talking about your ambitions for the future.
Spring II	Healthy living	<ul style="list-style-type: none"> ● Talking about what it means to lead a healthy lifestyle. ● Describing your daily routine. ● Describing symptoms when you do not feel well.
Summer I	Environment	<ul style="list-style-type: none"> ● Talking about children’s rights. ● Talking about fair trade. ● Talking about recycling. ● Describing how a town has changed.
Summer II	Folk tales and short stories	<ul style="list-style-type: none"> ● Understanding short stories and folktales. ● Practising translation skills. ● Writing a story for young children.

TKA Philosophy and Ethics Year 9 Programme of Learning – 2017/18

Half-term	Topic	Theme
Autumn I	The Hunt for Freedom - Pt 1	Considering the ways various philosophers and thinkers have pursued freedom, in various different areas; moral, political, existential, spiritual, social, with regards to gender, race, wealth, etc.
Autumn II	The Hunt for Freedom - Pt 2	Continuing the pursuit of freedom in the above categories, considering such figures as; Simone de Beauvoir, Rosseau, St Paul, Luther, Marx, Voltaire, Gandhi, Luther-King, Sartre and Jesus
Spring I	The Birth of Christianity - Pt 1	Considering the roots of the early Christian movement, the identity and claims of Jesus, the central components of Christian belief.
Spring II	The Birth of Christianity - Pt 2	Considering the roots of the early Christian movement, the identity and claims of Jesus, the central components of Christian belief.
Summer I	Ethical considerations - Pt 1	In a term of work particularly suited to preparing pupils for the kind of challenges at GCSE level, room will be given to considering various areas of ethical debate.
Summer II	Ethical considerations - Pt 2	In a term of work particularly suited to preparing pupils for the kind of challenges at GCSE level, room will be given to considering various areas of ethical debate.

TKA Physical Education Year 9 Programme of Learning – 2017/18

Half-term	Topic	Main Themes
Autumn I	Invasion Games	<ul style="list-style-type: none"> ● 3 Weeks Netball ● Passing/receiving & footwork ● Movement & identifying space ● The stages of defence ● 4 Weeks Rugby ● Passing & understanding basic rules ● Tackling & presenting ● Rucking, tackling & presenting ● Assessment
Autumn II	Sports Education	<ul style="list-style-type: none"> ● Roles and Programme Content ● Football ● Netball ● Tag Rugby ● Handball ● OAA ● Presentations and Awards
Spring I	Health Related Fitness	<ul style="list-style-type: none"> ● Components of Health Related Fitness ● Components of Skill Related Fitness ● Muscular System ● Nutrition ● Principles of Training
Spring II	Net Games	<ul style="list-style-type: none"> ● Volleyball 3 weeks ● Digs/Volleys ● Setting/Smashing ● Attacking principles & positioning ● Mini Tennis 3 weeks ● Ground strokes ● Net play ● Serving & understanding of the rules
Summer I	Athletics	<ul style="list-style-type: none"> ● Sprints ● Throws ● Middle distance ● Long distance ● Jumps
Summer II	Striking & Fielding	<ul style="list-style-type: none"> ● 3 weeks cricket ● Bowling ● Batting ● Understanding of the rules and game play ● 3 weeks softball ● Bowling ● Batting ● Understanding of the rules and game play