

Year 8 Curriculum Map

2017 - 2018

TKA English Year 8 Programme of Learning – 2017/18

Half-term	Topic	Main Themes
Autumn I & II - all classes	'The Curious Incident of the Dog in the Night time' by Mark Haddon and writing to argue.	Pupils will be exploring genre, theme, structure, characterisation and language through the novel and exploring the linguistic features and structure of non fiction articles about autism. Pupils will complete argumentative writing which explores the topics of online gaming or mobile phones and teenagers. They will write to present a point of view, give and respond to factual information, select, organise and emphasise facts, ideas and key points and include rhetorical devices.
Spring I	Identity poetry	Pupils will read a range of poetry relating to 'London identity' including 'London' by William Blake, 'Composed Upon Westminster Bridge' by William Wordsworth, 'The British' by Benjamin Zephaniah and 'Checkin out mi History' by John Agard. Pupils will explore how writers convey meaning through language and structure
Spring II	A Midsummer Night's Dream' by William Shakespeare	Pupils will be exploring elements of comedy and identity Shakespeare's ideas through language, stage directions, theme and characterisation. 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
Summer II	Heroes and villains / creative writing	Pupils will explore how heroes and villains are presented through a range of texts across the ages including 'Great Expectations', 'Oliver Twist' 'The BFG' 'Matilda' 'Harry Potter' and 'The Hunger Games' They will closely analyse how writers create meanings and effects using relevant linguistic terminology as well as creating their own heroic and villainous descriptions in preparation for an end of year assessment.
	Charity team project	Pupils will work in teams to research, design and produce their own charity campaign. This will

include: designing logos, slogans, poster campaigns, TV / radio adverts and campaign days.
Pupils will develop presentational skills in order to 'pitch' their ideas to adults.

TKA Mathematics Year 8 Programme of Learning – 2017/18

Half-term	Topic	Main Themes
Autumn I	Properties of numbers	 Primes, indices, roots Prime factorisation to find LCM, HCF, squares, cubes Using a calculator Index laws Rounding, significant figures and estimation Multiply and divide fractions and mixed numbers (inc. cancelling) Calculate with positive rational and decimal numbers
Autumn II	Algebraic expressions	 Calculate and evaluate expressions with rational numbers Algebraic manipulation Index laws Linear equations (including unknown on both sides) Expressions and equations from the real world
Spring I	2D Geometry	 Construct triangles, quadrilaterals (ruler, protractor, compasses) Congruency Bisectors Find unknown angles (including parallel lines) Conversion between length units and between area units Area and perimeter of composite figures Area of parallelograms and trapezia
Spring II	Proportional Reasoning	 Convert between fractions, percentages and decimals Percentage change (inc. as a fraction or decimal) finding the whole given the part and the percentage Ratio (equivalent; dividing) and rate Speed, distance, time
Summer I	Circles & 3D Geometry	 Circumference and area of a circle Conversion between mass units and between volume units Visualise and identify 3D shapes and their nets Surface area and volume of cuboids, prisms, cylinders, composite solids

Summer II Statistics	 Collecting and organising data Construction and interpretation of graphs – pictograms, bar charts, pie charts, histograms, line graphs Interpret and compare statistical representations
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TKA Science Department Year 8 Programme of Learning - 2017/18

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

Biology

Half-term	Topic	Main Themes
Autumn I	Biology	1. Exploring the world
8 Exa		2. Variation
8 Giga	Ecosystems	3. Charts and graphs
8 Kilo		4. Adaptations
8 Mega		5. Effects of the environment
8 Peta		6. Effects on the environment
8 Tera		7. Transfers in food chains
o reru		8. Human nomads
Autumn II	Biology	1. Food and advertising
8 Exa		2. Nutrients
8 Giga	Food and	3. Uses of nutrients
8 Kilo	Nutrition	4. Weighting and bias
8 Mega		5. Balanced diets
8 Peta		6. Digestion
8 Tera		7. Surface area
		8. Absorption
		9. Packaging and the law
Spring I	Biology	1. Water sports and breathing
8 Exa		2. Aerobic respiration
8 Giga	Breathing	3. Gas exchange system
8 Kilo	and	4. Means and ranges
8 Mega	respiration	5. Getting oxygen
8 Peta	_	6. Cause and effect
8 Tera		7. Comparing gas exchange
		8. Anaerobic respiration
		9. Fitness training
Spring II	Biology	1. Useful plants
8 Exa		2. Classification and biodiversity
8 Giga	Plants and	3. Accuracy and estimates
8 Kilo	their	4. Types of reproduction
8 Mega	reproduction	5. Pollination
8 Peta		6. Fertilisation and dispersal
8 Tera		7. Germination and growth
		8. Animals using plants

TKA Science Department Year 8 Programme of Learning - 2017/18

Chemistry

Half-term	Topic	Main Themes
Autumn I	Chemistry	1. Our material world
8 Exa	'	2. Sorting resource data
8 Peta	Atoms,	3. The air we breathe
	element and	4. Earth's elements
Spring I	molecules	5. Metals and non-metals
8 Giga	indicedies	6. Making compounds
8 Kilo		7. Chemical reactions
		8. The problem with elements
8 Mega		
8 Tera	Chamiatus	1. Tost analysis for atoms
Autumn II	Chemistry	1. Test analysis for atoms
8 Exa		2. Engines
8 Peta	Combustion	3.Burning fuels 4. Oxidation
Spring II		5. Fire safety
8 Giga		6. Fair testing
8 Kilo		7. Air pollution
8 Mega		8. Global warming
8 Tera		9 Reducing pollution
Spring I	Chemistry	1. Fireworks
8 Exa		2. Dalton's atomic model
8 Peta	The Periodic	3. Chemical properties
	Table	4. Mendeleev's table
Summer I		5. Anomalous results
8 Giga		6 Physical trends
8 Kilo		7. Chemical trends
8 Mega		
8 Tera		
Spring II	Chemistry	1. Building up
8 Exa		2. Metal properties
8 Peta	Metals and	3. Corrosion
o i cta	their uses	4. Describing materials
Summer II	Liieii uses	5. Metals and water
		6. Quality evidence
8 Giga		7. Metals and acids
8 Kilo		8. Pure metals and alloys
8 Mega		9. Metals in Art
8 Tera		

TKA Science Department Year 8 Programme of Learning – 2017/18

Physics

Half-term	Topic	Main Themes
Autumn I	Physics	1. Animal sounds
8 Giga	_	2. Making sounds
8 Kilo	Sound	3. Moving sounds
8 Mega		4. Line and scatter graphs
8 Tera		5. Detecting sound
		6. Using sound
Summer I		7. Remembering ideas
8 Exa		8. Comparing waves
8 Peta		9. Animals and noise
Autumn II	Physics	1. Exploring extremes
8 Giga		2. The particle model
8 Kilo	Fluids	3. Calculations with density
8 Mega		4. Changing state
8 Tera		5. Pressure in fluids
		6. Floating and sinking
Summer II		7. Drag
8 Exa		8. Humans at the extremes
8 Peta		
Spring I	Physics	1. Seeing things
8 Giga	_	2. Light on the move
8 Kilo	Light	3. Drawings and conventions
8 Mega		4. Reflection
8 Tera		5. Refraction
		6. Cameras and eyes
Summer I		7. Colour
8 Exa		8. Invisibility cloaks
8 Peta		
Spring II	Physics	1. Living in extremes
8 Giga		2. Temperature changes
8 Kilo	Energy	3. Choosing language
8 Mega	transfers	4. Transferring energy
8 Tera		5. Controlling transfers
		6. Accuracy and precision
Summer II		7. Power and efficiency
8 Exa		8. Paying for energy
8 Peta		9. Keeping warm

TKA Art Year 8 Programme of Learning – 2017/18

Half-term	Topic	Main Themes
Autumn I	The Formal Elements of Art and colour theory Abstract Art	 Colour theory Mixing colours The 7 formal elements of Art Reading artworks
		Outcomes: elements of Art poster
Autumn II	Abstract Art & 3D work	Colour and abstractionClay work
		Outcomes: abstract sculpture
Spring I	Natural Form	Observational drawingArtist research
		Outcomes: mood board
Spring II	Natural Form continued	 Printmaking Repeated pattern Design Outcomes: printed repeated pattern
Summer I	Art & Architecture Perspective	 Rules of perspective Key architects Cityscapes Outcomes: a perspectival cityscape
Summer II	Poster Art Graphic Design	 Text and image Graffiti Art Propaganda Art Graphic process Working to a brief Outcome: poster combining text and image Whole school exhibition; a celebration of creativity @ Kingston College

TKA Design & Technology Year 8 Programme of Learning - 2017/18

Half-term	Topic	Main Themes
Autumn I	Electronic Circuit Construction (USB Torch) Drawing & Rendering Texture in Isometric	 Joining metals – soldering Conductors and insulators Polarity Component identification Series & parallel circuits Current v Voltage Resistance and Ohm's Law Line weight Drawing in isometric Drawing basic shapes Crating Rendering – surface texture & colour
Autumn II	Coca-Cola v Innocent – Literacy – Persuasion	Persuasive writingArgumentsBrand identification
Spring I	Cutting, Shaping & Joining Timber (Jewellery Box)	 Measuring in mm Marking out Saw identification & use Joining timber-finger joints Routing grooves Pillar drill use Generating a surface finish
Spring II	Working Drawing	 BS308 Line types Size & scale (ratio) Drawing shapes in 2D/profile
Summer I	Electronic Circuit Construction (Amplifier)	 Joining metals – soldering Conductors and insulators Polarity Component identification Inputs/Outputs ICs
Summer II	Illustration Extension (2-Point Perspective)	 Line weight Horizon lines Drawing basic shapes Joining shapes

TKA Digital Literacy Year 8 Programme of Learning – 2017/18

Half-term	Topics	Themes
Autumn I	HTML How data is represented	 Web page design HTML page structures CSS inline and in the <head> of a web page</head> Coding data in digital systems Binary numbers and data storage Representing information as data; ASCII, colour codes Hexadecimal
Autumn II	Text based coding	 Programming in a text-based environment SmallBasic environment Coding properties and variables Implementing programming structures in SmallBasic code
Spring I	Software components	 Software components in a computer Operating systems (proprietary and open source) Using the command line for file management Networking with TCP/IP and data in LANs and WANs
Spring II	Computer crime, cybersecurity. IT and the Law.	 Modelling using a programming language Variables and mathematical operations Logical operators Loops and subroutines Creating a program to model a real world situation
Summer I	Developing for different devices: coding games	Cybersecurity
Summer II	Project: solving a problem using a program	Developing games for desktop and mobile Game mechanics of popular genres What makes a good game? Sprites and events

	 Coding a simple game in a specialised software environment
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TKA Geography Year 8 Programme of Learning – 2017/18

Half-term	Topic	Main Themes
Autumn I	Migration in North America	 What is migration and where is it happening? What is Mexico City like? How does Mexico City compare to the American Dream? Is migration successful? Should we welcome immigrants? Migration to the UK from Syria.
Autumn II	Sustianability	 What is sustainability? Why is sustainability so important to each of us? The three Rs How sustainable is our local area? How does our consumer culture affect us?
Spring I	Energy	 Types of energy What are the positives and negatives of fossil fuels Non-renewable vs renewable energy sources What energy do we use in the UK? Where is energy generated in the UK? What will we do when fossil fuels run out
Spring II	Global Warming	 What is climate change and global warming? What is causing climate change? Are humans to blame for global warming? What effects is global warming having on the world and people? How can we reduce global warming?
Summer I	Dubai	 Introduction to the Middle East: What is a region? The similarities and differences within the region Climate/challenges of Dubai The wonders of Dubai What is Dubai like for workers and tourists? What is the future for Dubai? Is Dubai sustainable?
Summer II	Coasts	 Why are the coasts important? How are the coasts under threat? How are landforms created at the coats? How can we protect the coastline from erosion?

TKA History Year 8 Programme of Learning – 2017/18

Half-term	Topics	Themes
Autumn I	Where did power lie? Religion and monarchy	 How important was the Church in the past? Why did Henry VIII argue with the Church? How did Edward VI change the English churches? Did Mary deserve her nickname? How successful was Elizabeth as Queen of England?
Autumn II	Where did power lie? Monarchy and parliament	 Were the Catholics framed for the Gunpowder plot? Why was there a Civil War? Why was Charles I executed? Why did the people want their King back? Were the Catholics framed for the Gunpowder plot? How did the Restoration change power in England?
Spring I	Where did power lie? Revolution and reform	 What are the main ingredients of revolutions? How close to revolution was nineteenth century Britain? Did Emily Davison intend to die for the Suffragette cause? Why are there different views on Margaret Thatcher How has power changed in Britain?
Spring II	Changing life? Industrialisation and adversity	 How did London change between 1750 and 1900? What were working conditions like in the nineteenth century? How has London changed since the nineteenth century?
Summer I	Changing life? Industrialisation and adversity	 How were people entertained in the nineteenth century? How did people's lives change in the nineteenth century? What was the British Empire?
Summer II	Changing attitudes? Effects of Empire	 Why did the Atlantic slave trade occur? Why was the slave trade abolished in the British Empire? How did the slaves fight back in the Americas?

TKA Music Year 8 Programme of Learning - 2017/18

Half-term	Topic	Main Themes
Autumn I	African Music	 Pupils will learn about African music, focusing in particular on drumming and singing. They will demonstrate their understanding of this genre with a listening and group performance assessment.
Autumn II	African Music 2- exploring rhythms	 Pupils will continue to learn about African music. They will also develop a foundation in rhythmic understanding through rhythmic dictation tasks, in turn developing their musical literacy.
Spring I	Music in Film 1	 Pupils will examine the ways in which music can be used to help set a scene and support the narrative of the film. This will include a number of listening and performing activities.
Spring II	Music in Film 2	 Pupils will develop their performance and composition skills, creating a storyboard and composing music to be performed alongside the film.
Summer I	The four-chord mash up- Pop Music	 Pupils will explore the fundamentals of pop music, in particular structure, instrumentation and harmony. This will be supported through a variety of activities centered around listening and performance of pre-existing songs.
Summer II	The four-chord mash up- Pop Music 2	 Pupils will apply their skills from the previous half term's learning and compose their own short pop song, taking into consideration the fundamentals covered so far.

TKA Spanish Year 8 Programme of Learning -2017/18

Half-term	Topic	Main Themes
Autumn I	Holidays	 Talking about holidays using the preterite tense where you went, what you did, what it was like. Creating a holiday themed board game.
Autumn II	Holidays (project)	 Researching a Central American country. Preparing a group presentation about a fictional journey and adventure.
Spring I	Let's eat!	 Food likes and dislikes Describing meal times. Ordering a meal in a restaurant. Giving an account of a party. Planning a party.
Spring II	Food (project)	 Researching typical Spanish & South American dishes. Designing a menu. Writing a recipe. Creating a masterchef style script in groups.
Summer I	My life	 Talking about TV Saying what type of music you like Saying what you use your phone/computer for Saying what you did yesterday
Summer II	What shall we do?	 Arranging to go out Making excuses Discussing getting ready to do out Talking about your passion

TKA Philosophy and Ethics Year 8 Programme of Learning – 2017/18

Half-term	Topic	Theme
Autumn I	Ideas that Shook the World - Pt 1	Considering: - Descartes / Hume - Darwin's Dangerous Idea - Nietzsche & Hitler - Karl Marx & Animal Farm - Kierkegaard / Sartre - The Search for Certainty - The Quest for Truth - Revolutionaries and Rebels
Autumn II	Ideas that Shook the World - Pt 2	Considering: - Descartes / Hume - Darwin's Dangerous Idea - Nietzsche & Hitler - Karl Marx & Animal Farm - Kierkegaard / Sartre - The Search for Certainty - The Quest for Truth - Revolutionaries and Rebels
Spring 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.
Spring 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
Summer I	The Thirst for the Divine	Exploring religious responses to the fundamental questions of life and the role of religion in the development of civilisation.
Summer II	The Thirst for the Divine	Exploring religious responses to the fundamental questions of life and the role of religion in the development of civilisation.

TKA Physical Education Year 8 Programme of Learning - 2017/18

Half-term	Topic	Main Themes
Autumn I	Football	 Ball control and dribbling Passing and shooting Attacking and defending
	Rugby	 Passing and understanding basic rules Tackling and presenting the ball Rucking, mauling and line outs How to outwit the opponent
Autumn II	Health Related Fitness	 Nutrition Components of health related fitness Components of skill related fitness Muscular system Somatotypes
Spring	Dance/ Gym	 Pair, group and individual balances Forwards, backwards rolls and movement across the floor Routines Hand jive routine Bollywood routine Creating small group routines
	Sports Educations	 Roles and Programme Content Football Netball Tag Rugby Handball OAA Presentations and Awards
Summer	Athletics	 Throws Sprints Middle distance Long distance Jumps
	Mini-tennis and rounders	 Groundstrokes Netplay Serving and gameplay tactics Batting and understanding the basic rules Fielding principles Gameplay and transferring skills into competitive matches

TKA Spanish Year 8 Programme of Learning – 2017/18

Half-term	Topic	Main Themes
Autumn I	Holidays	 Talking about where you went on holiday - where you went, what you did, describing what it was like. Creating a holiday themed board game.
Autumn II	Holidays (project)	 Researching a South American country. Preparing a presentation about a fictional journey and adventure.
Spring I	Food	 Saying what food you like. Describing meal times. Ordering a meal in a restaurant. Talking about a party you went to. Planning a party you are going to host.
Spring II	Food (project)	 Researching typical Spanish & South American dishes. Designing a menu. Writing a recipe. Creating a cookery video.
Summer I	Film - Carlitos	 Watching a Spanish film - describing what happened, giving opinions and predicting what is going to happen. Writing a review . Talking about favourite films.
Summer II	Film (project)	 Writing scripts and creating your own film trailers. Predicting other groups' narratives.