



Year 7 Curriculum Map

2017 - 2018

TKA English Programme of Learning – 2017/18

Half-term	Topic	Main Themes
Autumn I	Journeys	<ul style="list-style-type: none"> Establishing different genres of writing Exploration of journeys through extracts of literary non-fiction including autobiography (Nigel Slater, Bill Bryson, Bethany Hamilton, I am Malala, Bear Grylls) and diaries (Captain Scott, Anne Frank) Writing assessment on a dramatic journey inspired by Ellen McArthur's sailing race
Autumn II		<ul style="list-style-type: none"> Poetry Journey; exploring a range of poems on the theme of journeys. Analysing writers' effects through language, structure and word choice. Creating own poetry anthology.
Spring I		<ul style="list-style-type: none"> William Shakespeare's 'The Tempest'. Exploring Shakespeare's language, characterisation and stage directions. Writing in role of a director to an actor explaining how to interpret a scene.
Spring II		<ul style="list-style-type: none"> Dare to disagree Writing for a purpose; persuasion Writing and delivering a speech on a topic of pupils' choice
Summer I & Summer II		<ul style="list-style-type: none"> John Boyne's novel 'The Terrible Thing that happened to Barnaby Rooker' Exploring writer's intentions through structure, language and characterisation. Close analysis of a chapter and creative descriptive writing.

TKA Mathematics Year 7 Programme of Learning – 2017/18

Half-term	Topic	Main Themes
Autumn I	Add and subtract	<ul style="list-style-type: none"> Place value beyond millions and thousandths Times tables and number bonds Addition and subtraction: mental and written methods Addition and subtraction: decimals Pre-algebra Using derived facts Perimeter Negative numbers
Autumn II	Multiply and divide	<ul style="list-style-type: none"> Factors, multiples, HCF, LCM, Multiply and divide: mental and written methods Multiply and divide by 10, 100, 1000 Multiply and divide by decimals Pre-algebra Area of a rectangle and triangle Calculating the mean Word problems
Spring I	Geometry	<ul style="list-style-type: none"> Language of geometry: acute/obtuse/reflex, angle ACF, line segment DF Geometric constructions and measurements: ruler, protractor, pair of compasses Finding unknown angles (straight lines, at a point, vertically opposite, triangles, quadrilaterals) Properties of triangles and quadrilaterals
Spring II	Fractions	<ul style="list-style-type: none"> Equivalent fractions & representations of fractions Mixed numbers, improper fractions & multiple meanings of fractions (e.g. $\frac{4}{3}$ as $4 \times \frac{1}{3}$ and also 4 shared between 3) Compare and order fractions and decimals (inc. use of $<$, $>$, $=$) Add and subtract fractions (inc. mixed numbers) Fraction of a quantity One number as a fraction of another Word problems & bar models
Summer I	Algebra	<ul style="list-style-type: none"> Order of operations Algebra as generalised arithmetic & algebra conventions Substitution Simplifying algebraic expressions (including single a pair of brackets) Word problems: expressions & bar models Sequences (term-to-term)

Summer II	Ratio, Percentages & Pie charts	<ul style="list-style-type: none">• Interpret and draw pie charts• Ratios: simplifying and sharing (bar models)• Convert between percentages, fractions and decimals• Percentage of a quantity: mental & written & calculator• Find the whole given the part and the percentage• Word problems: measures, proportion, bar models
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TKA Science Department Year 7 Programme of Learning – 2017/18

Half Term	Topic	Main Themes
Autumn I	Laboratory Safety	<ul style="list-style-type: none"> Laboratory safety, using the Bunsen Burner safely
	Biology: Cells, tissues, organs and systems Chemistry: Mixtures and separation	<ul style="list-style-type: none"> Life processes, human organs, plant organs, tissues, microscopes, animal and plant cells, organ systems, transplants. Mixtures, solutions, evaporation.
Autumn II	Chemistry: Mixtures and separation Physics: Energy Biology: Sexual reproduction in animals	<ul style="list-style-type: none"> Chromatography, distillation, safe drinking water. Food energy, energy transfers and stores, fossil fuels, other energy resources, using energy resources, reducing energy consumption Animal sexual reproduction, reproductive organs.
Spring I	Biology: Sexual reproduction in animals Chemistry: Acids and alkalis	<ul style="list-style-type: none"> Becoming pregnant, gestation and birth, growing up. Hazards and risks, indicators, acidity and alkalinity, pH scale.
Spring II	Chemistry: Acids and alkalis Physics: Current electricity	<ul style="list-style-type: none"> Neutralisation in daily life, danger at home Switches and current, circuit models, series and parallel circuits, changing the current, using electricity, a world without electricity.
Summer I	Biology: Muscles and bone Chemistry: The particle model	<ul style="list-style-type: none"> Muscles and breathing, muscles and blood, the skeleton, muscles and moving, drugs, drugs in sport. Differences in states of matter, particle theory, Brownian motion.
Summer II	Chemistry: The particle model Physics: Forces	<ul style="list-style-type: none"> Diffusion, air pressure, waste. Types of force, springs, friction, pressure, balanced and unbalanced forces, safety standards

TKA Design & Technology Year 7 Programme of Learning – 2017/18

Half-term	Topic	Main Themes
Autumn I	Structures (Bridges)	<ul style="list-style-type: none"> Producing a bridge to span 300mm and support the weight of a can.
Autumn II	Product Analysis Blue Foam Modelling (Vehicles)	<ul style="list-style-type: none"> Product analysis of a child's toy, using appropriate technical vocabulary and criteria. Designing in profile (2D), then measuring in mm to produce a template to cut and shape foam to produce a model vehicle.
Spring I	Drawing & Rendering in Isometric Cutting & Shaping Timber (Spinning Top)	<ul style="list-style-type: none"> Isometric colour rendering of three shapes in a tower Designing in 2D Ergonomics Prototyping in squared paper Joining materials Saw Selection and pillar drill use Generating a surface finish
Spring II	Inspiration Board Generation Typography (Number Plate)	<ul style="list-style-type: none"> Image sourcing and mounting images Forming letters Font styles Serif vs sans-serif Kerning
Summer I	Electronic Circuit Construction (USB Torch)	<ul style="list-style-type: none"> Joining metals, soldering Conductors and insulators Component identification Series & parallel circuits – bread boarding Torch and case construction Current v Voltage and Resistance and Ohm's Law
Summer II	Illustration Extension (2-Point Perspective)	<ul style="list-style-type: none"> Line weight Horizon lines Drawing basic shapes Joining shapes

TKA Digital Literacy Programme of Learning – 2017/18

Half-term	Topics	Themes
Autumn I	Digital skills toolkit	<ul style="list-style-type: none"> • Software skills diagnostic tasks and focused follow-up • Information versus data • Online security, online safety • Using online tools to assess reliability of information
Autumn II	Software skills supporting study	<ul style="list-style-type: none"> • Manipulating images • Creating diagrams to convey information accurately • Specialist software skills to support STEM subjects • Consistent documents with design standards
Spring I	How computers work	<ul style="list-style-type: none"> • Purpose and function of hardware components • The role of key computer parts such as RAM and CPU
Spring II	Problem solving	Computer Science Discoveries: Unit 1 <ul style="list-style-type: none"> • Solve simple problems using an algorithm • Implementing algorithms in a programming environment • Programming structures
Summer I	Key programming principles	Computer Science Discoveries: Unit 3 - Programming <ul style="list-style-type: none"> • Drawing and loops • Variables • Properties (and sprites) • Boolean conditionals • Events (sprite collisions)
Summer II	Creating apps for a purpose	<ul style="list-style-type: none"> • Software platforms and desktop versus mobile apps • Stages of software development • Designing and programming an app

TKA Art Programme of Learning – 2017/18

Half-term	Topics	Themes
Autumn I	What is Art? Portraiture and Identity	<ul style="list-style-type: none"> • Drawing skills • Proportions of the face • Keeping a sketchbook • Reading paintings <p>Outcomes: sketchbooks, artist research presentations, self portraits</p>
Autumn II	Elements of Art Colour Theory Japanese Art	<ul style="list-style-type: none"> • Formal elements of Art • Colour mixing and theory • Japanese culture • Painting <p>Outcomes: colour mixing, elements of art poster, origami, Wave image, cherry blossom painting</p>
Spring I	Still Life	<ul style="list-style-type: none"> • Observational drawing • Drawing skills <p>Outcomes: still life drawing</p>
Spring II	Symbolism in paintings (Vanitas)	<ul style="list-style-type: none"> • Memento Mori • 3D work (modrock) • Reading paintings <p>Outcomes: modrock pots</p>
Summer I	A sense of place: TKA and its locality	<ul style="list-style-type: none"> • Landscapes • Cityscapes • A sense of place <p>Outcomes: collage inspired by TKA building</p>
Summer II	Seascapes	<ul style="list-style-type: none"> • Observational drawing • Mixed media <p>Outcomes: imaginary seascape</p> <p><i>Whole school exhibition; a celebration of creativity @ Kingston College</i></p>

TKA Geography Programme of Learning – 2017/18

Half-term	Topic	Main Themes
Autumn I	Geography Skills	<ul style="list-style-type: none"> • What is geography? • Continents and Oceans • Direction and distance on a map • Grid references • Creating graphs • Describing graphs • Describing a journey on a map (OS map features)
Autumn II	The British Isles	<ul style="list-style-type: none"> • What makes up the British Isles? • Important places in the British Isles. • Where do we come from? • The climate and weather of the UK • Employment within the UK • Where do we live in the UK? • How is the UK linked to other countries?
Spring I	Rivers	<ul style="list-style-type: none"> • Where do rivers come from? • The parts of a river • What do rivers do (erosions, transportation and deposition) • Landforms created by rivers (waterfalls, meanders and oxbow lakes)
Spring II	Flooding	<ul style="list-style-type: none"> • What causes rivers to flood? • How can we measure flooding? • Flooding in the UK - Boscastle • Flooding outside of the UK - Bangladesh • How can we prevent damage from flooding?
Summer I	Kenya	<ul style="list-style-type: none"> • What is Kenya like - places, people and the climate • How developed is Kenya? • Where do people live in Kenya • Economy of Kenya: industry, coffee farming • The Kenyan flower trade. Is it fair? • Alternative (traditional) life styles in Kenya – The Masai
Summer II	Settlements	<ul style="list-style-type: none"> • What makes a good settlement site? • Different types of settlement • What do settlements look like on a map? • How are settlements laid out? • How had London changed over time and why?

TKA History Programme of Learning – 2017/18

Half-term	Topics	Themes
Autumn I	What is History? Where did power lie? The Norman Conquest	<ul style="list-style-type: none"> • Meet the history brain. • Understanding sources • What was England like before 1066? • What is the mystery of Edward the Confessor? • Who should be king in 1066?
Autumn II	Where did power lie? The Norman Conquest	<ul style="list-style-type: none"> • Why did William win the Battle of Hastings? • How did William consolidate his power? • How successful was William?
Spring I	Where did power lie? Changing power - rulers and beliefs	<ul style="list-style-type: none"> • What did people believe in the past? • Why did Henry II allow himself to be whipped? • Does King John deserve his reputation?
Spring II	Where did power lie? Changing power - rulers and ruled	<ul style="list-style-type: none"> • Was the Black Death a disaster? • Why did the Peasants revolt? • Who won the Wars of the Roses?
Summer I	Where did power lie? Changing power - rulers and religion.	<ul style="list-style-type: none"> • Was Henry VII a gangster? • Why did Henry VIII argue with the Church? • How did Edward VI change the English churches? •
Summer II	Where did power lie? Changing power - rulers and religion.	<ul style="list-style-type: none"> • Did Mary deserve her nickname? • How successful was Elizabeth as Queen of England?

TKA Music Programme of Learning – 2017/18

Half-term	Topic	Main Themes
Autumn I	Elements of Music	<ul style="list-style-type: none"> • <i>An introduction to the elements of music.</i> They will take part in many small group and whole class activities to develop their understanding of the musical elements. Pupils will listen to a variety of music and complete a listening assessment to demonstrate their understanding of the topic.
Autumn II	Elements of Music continued	<ul style="list-style-type: none"> • Pupils will develop their musical literacy through rhythm, pulse and pitch work. They will cultivate their understanding of musical notation and the various ways that music can be written down. • Pupils will support their musical literacy through practical tasks, in turn developing their keyboard skills.
Spring	The Passenger 1	<p>Students will follow a Musical Futures based topic and develop the following skills:</p> <ul style="list-style-type: none"> • Ability to listen to and copy rhythms using instruments and voices, play pieces by ear, and play along to a live and/or recorded musical backing. • Ability to play instruments with different techniques, a range of dynamics, basic playing techniques (for example tonguing/bowing etc) and a range of notes (for example from open strings to 1st/2nd finger on violin, or 5–6 notes on trumpet/flute/clarinet, etc). • Sing in unison and two (or more) parts. • Ability to improvise and compose simple melodic material, using a range of pitch, dynamics and techniques. • Ability to structure simple musical ideas to create whole pieces. • Ability to follow simple notation (such as piece structure, or note names, sometimes with rest signs, dynamics, words to remember rhythms, etc)
Summer I	Singing festival	<ul style="list-style-type: none"> • Students will become a class choir, working on a series of songs, developing their ability to harmonise as part of a group.
Summer II	Stomp	<ul style="list-style-type: none"> • Development of rhythm skills

TKA Philosophy and Ethics Programme of Learning –2017/18

Half-term	Topic	Theme
Autumn I	Philosophy	What you believe matters Considering: <ul style="list-style-type: none"> - What you believe matters - Why do we believe what we believe? - The Birth of Philosophy - Beliefs Worth Standing For - Beliefs I would Stand For
Autumn II	Philosophy	Ideas that Shook the World Considering: <ul style="list-style-type: none"> - Luther and the Reformation - The Search for Certainty - The Quest for Truth - Revolutionaries and Rebels
Spring I	Religion	The roots of Judaism - Part One
Spring II	Religion	The roots of Judaism - Part Two
Summer I	Ethics	How should we live our lives? Introduction to practical ethics and ethical dilemmas, and the role of faith in establishing moral codes.
Summer II	Ethics	How should we live our lives? - Part 2. Introduction to practical ethics and ethical dilemmas, and the role of faith in establishing moral codes.

TKA Physical Education Programme of Learning – 2017/18

Half-term	Activity	Key skill
Autumn I	Fundamentals	<ol style="list-style-type: none"> 1. Running, jumping and ABCs 2. Throwing and catching 3. Striking 4. Kicking and dribbling 5. Self Reflection/ Combining and identifying different skills in sport 6. OAA (Team building and communication) 7. OAA (Trust and problem solving)
Autumn II	Invasion games (Handball and Football)	<ol style="list-style-type: none"> 1. Passing 2. Receiving 3. Shooting 4. Moving with the ball 5. Jockeying/marking 6. Strategic play to outwit the opponents
Spring	Dance	1 - 6 Starwars dance routine
	Health Related Fitness	<ol style="list-style-type: none"> 1. Warm up & cool down 2. Components of health related fitness 3. Components of skill related fitness 4. Muscular system 5. Nutrition 6. Anatomy and physiology: the heart, pulse rate, maximum heart rate (MHR)
Summer	Athletics	<ol style="list-style-type: none"> 1. Sprints 2. Middle distance 3. Long distance 4. Throws 5. Jumps
	Striking and Fielding	<ol style="list-style-type: none"> 1 - 3. Cricket 4 - 6. Rounders

TKA Spanish Programme of Learning – 2017/18

Half-term	Topic	Main Themes
Autumn I	Introducing yourself and family	<ul style="list-style-type: none"> ● Getting used to Spanish pronunciation ● Introducing yourself ● Talking about your personality ● Talking about age and siblings ● Saying when your birthday is ● Talking about pets
Autumn II	Family & home	<ul style="list-style-type: none"> ● Describing your family ● Describing hair and eye colour ● Saying what other people look like ● Describing where you live
Spring I	Free time	<ul style="list-style-type: none"> ● Saying what you do in your free time ● Talking about your likes/dislikes ● Saying what sports you do ● Talking about weather
Spring II	My School	<ul style="list-style-type: none"> ● Describing your school ● Giving opinions about school subjects ● Talking about break/lunchtime activities
Summer I	My city	<ul style="list-style-type: none"> ● Describing your city/ town/village ● Telling the time ● Talking about what you are going to do at the weekend
Summer II	Culture, cross-curricular projects	<ul style="list-style-type: none"> ● Describing and comparing Spanish paintings ● Planning an education project for a school in Guatemala ● Researching about endangered animals