

Curriculum Overview Year 9

Subject	Term 1	Term 2	Term 3
English	<p><u>Views and voices</u> - discussing what it is like to be a teenager and stereotypes; contrasting teenage role-models; opinions about teenage psychology; writing letters or emails to friends; contrasting and presenting articles about teenage normative behaviour</p> <p><u>Well-being</u> - reading about and discussing healthy eating and the importance of a balanced diet; exploring the effects of technology on well-being; discussing what it means to be happy; making presentations or writing essays about happiness and well-being</p> <p><u>Tourism</u> - discussing or writing about one's own travels; writing a blog about a holiday; debates about the effects of tourism; report about a school trip</p> <p>Reading autobiography such as <i>My Name is Tani</i>; Reading fiction such as <i>My Name is Tani</i>; <i>A Rainbow in Silk</i>; <i>The Summer Book</i></p>	<p><u>Science</u> - Compare how humans and animals see colour; explore history of disease and inoculation; discussing genetics and DNA; exploring inventors and inventions; essays about extinct animals; debates about zoos;</p> <p><u>Technology</u> -discuss the impact and value of social media; use of modern technology to explore the past, such as in archaeology; predicting future technologies; role-play interview about social media; design timeline for current technology and/or future technology</p> <p><u>Rules and Laws</u> -assessment of various rules and laws, such as in families, school, or countries; discussing moral dilemmas; role-playing asking permission of parents; writing police statements</p> <p>Reading poetry such as <i>Tortoise and the Hare</i>; <i>The Farmer's Cat</i> Reading non-fiction such as <i>A Little History of Science</i>; <i>Humankind</i></p>	<p><u>Competition</u> - Comparing individual and team sports; discussing benefits of sports; exploring unusual or unfamiliar sports; News reports or broadcasts about sports; presentations about a sport and its rules</p> <p><u>The environment</u> - discuss global warming and extreme weather; role play interview with climate scientist; write news story about sustainable cities; write a weather forecast; make plan on how to reduce one's personal waste; present a list of ideas for sustainable living</p> <p><u>Achievement and Ambitions</u> - conduct survey about the jobs teens want to have, discuss their practicality; role-play job interviews; write pieces about future-selves; read about young people who have made great accomplishments; compare dissimilar jobs and present findings; outline the steps to achieve one's personal and professional goals.</p> <p>Reading non-fiction such as <i>The Playbook</i> Reading fiction such as <i>Rickshaw Girl</i> Reading poetry such as <i>For Papatuanuku</i>, <i>Moonlight Summer Moonlight</i></p>
Khmer	<p><u>Merit</u></p> <ul style="list-style-type: none"> - Poems - Main idea from poems - Adjectives of quantity <p><u>Children's hopes</u></p> <ul style="list-style-type: none"> - Summarizing stories - Sequencing stories - Interrogative adjectives <p><u>Mine in Cambodia</u></p> <ul style="list-style-type: none"> - Taking notes of important information from reading texts/summarising 	<p><u>Advantages of nature</u></p> <ul style="list-style-type: none"> - Identifying events from the story - Adverb - Grammar: ័ <p><u>Fishing</u></p> <ul style="list-style-type: none"> - Identifying moral of the stories - Reading comprehension - Adverb <p><u>Cambodian culture</u></p> <ul style="list-style-type: none"> - Synonyms - Grammar: () 	<p><u>Arts</u></p> <ul style="list-style-type: none"> - Wh-questions - Synonym and Antonyms - Writing multi-instructions <p><u>Religion and belief</u></p> <ul style="list-style-type: none"> - Synonyms and Antonyms from poems - Subjects pronounce - Write a short poem <p><u>Tourist attraction in Cambodia</u></p> <ul style="list-style-type: none"> - Conjunctions - Writing: Describing a place

	<ul style="list-style-type: none"> - Demonstrative adjectives - Antonyms 	<ul style="list-style-type: none"> - Writing: describing an events 	
Chinese	<p><u>School life</u></p> <ul style="list-style-type: none"> - Class schedule - Subjects - Homework & exams - Describing the school <p><u>Making phone calls</u></p> <ul style="list-style-type: none"> - Exchanging contacts - Answering the phone - Making a phone call 	<p><u>Shopping</u></p> <ul style="list-style-type: none"> - Shopping malls and street markets - Fruits and vegetables - Buying stationaries <p><u>Food</u></p> <ul style="list-style-type: none"> - Eating out - Popular Chinese dishes - Famous Chinese restaurants 	<p><u>Travelling</u></p> <ul style="list-style-type: none"> - Tourist destinations - Places of interests in China - Asking for directions <p><u>About IGCSE</u></p> <ul style="list-style-type: none"> - Introduction to IGCSE Mandarin
Geography	<p><u>Globalization</u></p> <ul style="list-style-type: none"> - To define globalization and examine examples of globalization around the world. - To explore both the advantages and disadvantages of globalization in a local, regional, and global settings – with a focus on globalization in Asia. <p><u>Coasts</u></p> <ul style="list-style-type: none"> - To examine the process of waves and processes including erosion, transportation and deposition. - To explain how coastal processes cause the creation of caves, arches, stacks, stumps and wave-cut platforms. 	<p><u>Urbanization</u></p> <ul style="list-style-type: none"> - To examine the issues caused by urbanization including: traffic congestion, water and air pollution, deforestation, and urban poverty. - To examine the issues surrounding urban sprawl, with a detailed look at the range of issues facing Phnom Penh. <p><u>Rivers</u></p> <ul style="list-style-type: none"> - To explore processes in the river, including the creation of river landforms including waterfalls and gorges. - Using a case study of the Mekong River, to explain the challenges facing the Mekong, as well as the benefits. 	<p><u>Rainforests and Deserts</u></p> <ul style="list-style-type: none"> - To examine issues facing the rainforests and desert biomes such as deforestation and desertification. - The students will choose a case study to examine in more detail. They will then explore the issues facing this rainforest/desert as well as the potential solutions to the challenges facing these unique biomes. <p><u>Migration</u></p> <ul style="list-style-type: none"> - Using a case study of Latin American migration to the USA, students will examine the causes of this migration, as well as the issues that migration causes on both the host countries (the USA) as well as the source countries (in South and Central America).
History	<u>Africa and transatlantic slavery</u>	<u>Modern History: The Cold War</u>	<u>Ancient Civilisations</u>

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	<ul style="list-style-type: none"> - To examine Africa pre-slavery as well as some of the major empires that existed on the continent. - To explore the issues surrounding the Transatlantic slave trade and the impact that it still has on present-day Africa. 	<ul style="list-style-type: none"> - To understand the causes of the Cold War as well as an in-depth study of various events within the Cold War such as the Cuban Missile Crisis. - To develop knowledge and understanding of the different stages of the Cold War as well as various historical interpretations of the events in place. 	<ul style="list-style-type: none"> - Students will do a directed in-depth study of an ancient civilization of their choice. This could include, (although is not limited to): Ancient Egypt, The Romans, The Greeks, Khmer Empire, Chinese Empire, Hindu Civilisations.
Biology	<p><u>Photosynthesis and the carbon cycle:</u></p> <ul style="list-style-type: none"> - Learn what photosynthesis is, how it happens and why it is important - Find out where photosynthesis happens in plants - Learn why plants need magnesium and nitrate - Find out how carbon atoms move between the air, living organisms and fossil fuels - Find out how the Earth's climate has changed in the past - Learn what happened when an asteroid collided with Earth - Consider how the increase in carbon dioxide in the atmosphere affects climate today and in the future, and describe some of the predicted impacts of climate change - 	<p><u>Maintaining life</u></p> <ul style="list-style-type: none"> - Discover how water moves from a plant's roots to its leaves - Find out how water vapour is lost from plant leaves - Find out what substance's humans excrete - Study the structure of the human excretory system - Learn how the kidneys help with excretion - Think about how the development of a foetus is affected by the health of the mother - Find out how diet, smoking and drugs can affect foetal health - - 	<p><u>Genetics and inheritance</u></p> <ul style="list-style-type: none"> - Learn that chromosomes contain genes - Find out what genes and chromosomes are made of - Learn what a gamete is - Think about the similarities and differences between male and female gametes - Find out what happens at fertilisation - Explain what determines whether a baby is a boy or a girl - Learn what is meant by variation - Think about how genes help to produce variation - Learn about the scientific theory of natural selection -
Chemistry	<p><u>Properties of materials</u></p> <ul style="list-style-type: none"> - Describe the structure of an atom and learn about the methods and discoveries of Rutherford - Compare the structure of the first twenty elements of the periodic table - Describe trends in groups and periods - Talk about the contribution of scientists. 	<p><u>Reactivity</u></p> <ul style="list-style-type: none"> - Use the reactivity series of metals to predict which metals will displace other from a solution of their salts - Carry out some displacement reactions - Explain what a salt is - Prepare a salt by reacting a metal with an acid and a salt by heating a metal oxide with an acid 	<p><u>Rates of reaction</u></p> <ul style="list-style-type: none"> - Learn how the rate of reaction can change - Use graphs to discuss and measure the rate of reaction - Explain what the rate of reaction changes - Investigate the rate of reaction when the surface area of one of the reactants is changed

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	<ul style="list-style-type: none"> - Describe the structure of an ion and compare it with that of an atom - Explain how ionic and covalent bonds are formed - Explain what a molecule is - Write the formulae of some ionic and covalent compounds - Learn how giant structures are formed - Compare the properties of ionic and covalent substances - Explain how the structures of these substances relate to their properties - - 	<ul style="list-style-type: none"> - Prepare salt by using acid and carbonate. - Prepare a salt using neutralization - Learn what happens to the mass of reactants and products in a chemical reaction - Learn what happens to the energy involved in a chemical reaction. - - Explore and explain the idea of endothermic processes and exothermic reactions. - Combustion - Describe the reactivity of metals with oxygen, water and dilute acids. - Explore and understand the reactivity series - Give examples of displacement reactions 	<ul style="list-style-type: none"> - Carry out investigation using the reaction between calcium carbonate and dilute hydrochloric acid - Consider how changing the shape of a material can affect the surface area - Investigate the effect of temperature on the rate of reaction - Investigate the effect of concentration on the rate of reaction
Physics	<p><u>Force and Energy:</u></p> <ul style="list-style-type: none"> - Discover what is meant by density and how to calculate density. - Compare the densities of solids, liquids and gases - Understand and predict whether objects will float or sink in water - Understand the difference between heat and temperature - Learn about the conservation of energy - Understand that thermal energy is dissipated from hotter places to colder places - Describe how thermal energy can be transferred by conduction, convection and radiation. - Understand evaporation causes cooling 	<p><u>Sound and Space:</u></p> <ul style="list-style-type: none"> - Find out about the amplitude and frequency of a sound wave - Learn how amplitude is linked to loudness and frequency is related to pitch - find out how sound waves can reinforce each other to make louder sounds - find out how sound waves can cancel each other out to make no sound - describe evidence for the collision theory for the formation of the moon - discover that nebulae are clouds of dust and gas in space - learn how stars can form in nebulae - discover how convection currents cause movement of tectonic plates - 	<p><u>Electricity:</u></p> <ul style="list-style-type: none"> - Find out the difference between series and parallel circuits - Find out how current flows in a parallel circuit - Compare current and voltage in series and parallel circuits - Describe the effects of adding cells and lamps on current and voltage in circuits - Discover how resistance affects current in a circuit - Calculate resistance from voltage and current - Draw circuit diagrams that include symbols for cells, switches, resistors, variable resistors, ammeter, voltmeters, lamps and buzzers -
Maths	<p><u>Number</u></p> <ul style="list-style-type: none"> - Irrational numbers 	<p><u>Number</u></p> <ul style="list-style-type: none"> - Working with fractions 	<p><u>Number</u></p> <ul style="list-style-type: none"> - Review

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	<ul style="list-style-type: none"> - Standard form - Indices - Working with decimals <p><u>Algebra</u></p> <ul style="list-style-type: none"> - Forming expressions - Substitution - Index laws - Simplifying algebraic fractions - Forming and solving equations - Simultaneous equations <p><u>Geometry and Measure</u></p> <ul style="list-style-type: none"> - Angles in a polygon - Construction <p><u>Probability and Statistics</u></p> <ul style="list-style-type: none"> - Sampling and bias 	<ul style="list-style-type: none"> - Direct and inverse proportion <p><u>Algebra</u></p> <ul style="list-style-type: none"> - Sequences review - Graphs review <p><u>Geometry and Measure</u></p> <ul style="list-style-type: none"> - Pythagoras' Theorem 	<p><u>Algebra</u></p> <ul style="list-style-type: none"> - Working with line segments <p><u>Geometry and Measure</u></p> <ul style="list-style-type: none"> - Bearings and scale drawings - Transformations - Prisms, pyramids and cylinders <p><u>Probability and Statistics</u></p> <ul style="list-style-type: none"> - Mutually exclusive events - Independent and combined events - Interpreting and representing data
Art	<p><u>Identity:</u></p> <ul style="list-style-type: none"> - Portraiture - Drawing, Painting, Printing and collage skills. - Photography to develop self-image. - Artist research and critical study - Thumbnailing ideas in style of featured artists. - Developing key vocabulary through annotation. - Generating Final piece 	<p><u>Pop art:</u></p> <ul style="list-style-type: none"> - Research and project <p><u>Colour theory:</u></p> <ul style="list-style-type: none"> - hot and cold colours; complementary colours; Harmonious colour schemes. - Still life: - Creating their own still life. Using photography and print to recreate imagery. Applying colour theory to their chosen still life. 	<p><u>Life drawing:</u></p> <ul style="list-style-type: none"> - the human figure; ideal proportions; live pose studies in various media culminating in a painting. - Research into relevant artists and critically analysing their work. - Working in the style of these artists and developing a final idea related to this artist.
Music	<p><u>Samba Batucada</u></p> <ul style="list-style-type: none"> - Learning to play various Samba instruments - Historical context - Performing in groups - Creating a group performance using different techniques <p><u>Tear In My Heart</u></p>	<p><u>Music Tech: Dance</u></p> <ul style="list-style-type: none"> - Learn about the genre and musical features - Create an original verse chorus dance track music a DAW. <p><u>Rock Band: Choice</u></p> <ul style="list-style-type: none"> - Class chooses a song to learn and perform. <p><u>Body Percussion</u></p>	<p><u>Minimalism</u></p> <ul style="list-style-type: none"> - The history and figures of the artistic movement. - Create a minimalist composition in groups and/or using a DAW in ternary form using minimalist techniques. <p><u>Band</u></p> <ul style="list-style-type: none"> - Learn to sing the song and all instrumental parts, performing in a band. <p><u>Songwriting</u></p>

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	<ul style="list-style-type: none"> - Learn instrumental parts and perform in bands including guitar, voice, drums, keyboard and bass. 	<ul style="list-style-type: none"> - Explore making sounds using the body only. In groups, create a Binary form performance showing off all the techniques studied. 	<ul style="list-style-type: none"> - Write song lyrics, choosing chords and style. - Perform and record instruments using DAW.
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