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Summer Courses

Pre-IBDP IGCSE IBMYP IBPYP



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Year 7 to Year 9 Mathematics

Y7 Summer course class structure

	Description
Lesson 1	Properties of Numbers <ul style="list-style-type: none"> ✧ Operating with numbers and their orders ✧ Factors and multiples of numbers ✧ HCF(highest common factor) and LCM(lowest common multiple)
Lesson 2	
Lesson 3	Fractions <ul style="list-style-type: none"> ✧ Understanding fractions ✧ Operations with fractions
Lesson 4	Decimals <ul style="list-style-type: none"> ✧ Operation of decimal numbers ✧ Terminating recurring decimals ✧ Decimal approximations ✧ Comparing decimals
Lesson 5	Percentages <ul style="list-style-type: none"> ✧ Understanding percentage ✧ One quantity as a percentage of another ✧ Percentage of quantities
Lesson 6	

Y8 Summer course class structure

	Description
Lesson 1	Algebraic operations <ul style="list-style-type: none"> ✧ Understanding algebraic expressions ✧ Collecting like terms ✧ Algebraic expansion ✧ Algebraic factorisation
Lesson 2	
Lesson 3	Algebra and equations <ul style="list-style-type: none"> ✧ Solving equations ✧ Fractional equations ✧ Unknown in the denominator
Lesson 4	Radicals and Pythagoras <ul style="list-style-type: none"> ✧ Pythagoras Theorem ✧ Problem Solving with Pythagoras ✧ Understanding square roots ✧ Rules for square roots ✧ Solving equations with square roots
Lesson 5	
Lesson 6	Probabilities <ul style="list-style-type: none"> ✧ Probabilities from data ✧ Life tables ✧ Theoretical probability ✧ Compound events

Y9 Summer course class structure

	Description
Lesson 1	Percentages <ul style="list-style-type: none"> ✧ The unitary method in percentage ✧ Percentage change using a multiplier ✧ Finding the original amount ✧ Simple and compound interest
Lesson 2	
Lesson 3	Length and area <ul style="list-style-type: none"> ✧ Perimeter and circumference ✧ Area of rectangle, triangle, trapezium, and parallelogram
Lesson 4	Volume and Surface Area <ul style="list-style-type: none"> ✧ Surface area of objects ✧ Cross section of objects ✧ Volume of Solid with uniform cross section
Lesson 5	Coordinate geometry <ul style="list-style-type: none"> ✧ Understanding the coordinate plane ✧ Plotting linear graphs ✧ Gradient and intercepts ✧ Finding equations on graphs
Lesson 6	

Year 7 to Year 9 Science

Y7 Summer course class structure

A: Learning

	Description
Lesson 1	Biology Characteristics of Living things Description: Understanding the fundamental in biology, what classify as living thing?
Lesson 2	Biology Cells Description: What is cells? By using a microscope, we can look at cells and their structures, understanding how microorganisms adapts to its environment and specialized cell
Lesson 3	Chemistry State of Matter Description: Our world consists of solids, liquids and gases; they can interchange between each other, how does this work?
Lesson 4	Chemistry Nucleation Description: Lots of videos on Cola and Mentos can be found on the internet, what is the science behind it? We can try it out and see it for ourselves
Lesson 5	Physics Forces Description: Understanding the world with Newtons law, why objects move when we push it or pull it?
Lesson 6	Physics Energy Description: Understand that energy cannot be generated or destroyed, but can only change from one form to another.

B: Experiment

- Understanding the theory behind the Mentos and Cola experiment do doing hands on.
- Trying to figure out forces and calculations
- Using a microscope to identify cells and objects
- Energy conversion



Y8 Summer course class structure

A: Learning

	Description
Lesson 1	Biology Cells Description: What is cells? By using a microscope, we can look at cells and their structures, understanding how microorganisms adapts to its environment and specialized cell
Lesson 2	Biology Immune Systems Description: How is your body able to protect itself from harm? What happens when you are feeling unwell?
Lesson 3	Physics Light Description: We can see because of light, but how does it work? Is there things beyond the light we see? We can separate light from experiment and understand their behavior using lasers.
Lesson 4	Physics Sound Description: We have ears to hear the world around us, but how is sound produced? Apart from hearing what else could be use it for? We have a range of demonstrations to explain the true use for sound.
Lesson 5	Chemistry Atoms, Elements and Compounds Description: Everything matter in this world consist of atoms. We look how these are arranged to form the matter we know of.
Lesson 6	Chemistry Metals Description: Metals has been around for many thousands of years; people are still trying to master the art behind it. Come and discover what is so special about this material

B: Experiment

- Using a microscope to identify cells and objects
- Using lasers and prisms to understand light
- Using a speaker and circuit to figure out how sound works
- Looking at different kinds of metal and their special properties
- **Fruity Power: using fruits and two metals to make a battery**



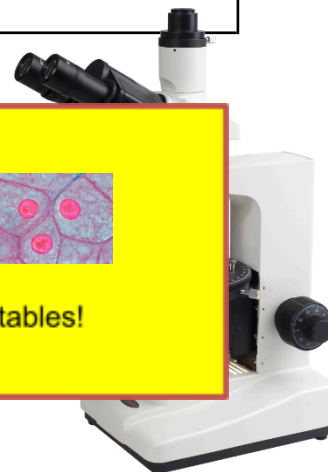
Y9 Summer course class structure

	Description
Lesson 1	A: Learning Paper 6 Skills Description: iGCSE requires student to understand the principle of practical/experiments, but understanding the question is another set of skills.
Lesson 2	A: Learning Experimental Skills Description: Before doing hands on experiments, basic skills should as planning is necessary. When doing the experiment, what do skills do you need? And finally, what to do with the results?
Lesson 3	A: Learning Biology and Chemistry Description: Based on topics for the iGCSE syllabus, this lesson includes the theory for the practical, this includes looking at cell structure and particle theory. Planning experiment for next session.
Lesson 4	B: Experiment Biology and Chemistry Description: Using a microscope to identify cells and objects and looking at change of states for different materials.
Lesson 5	B: Lesson Chemistry and Physics Description: Follow particle theory, the periodic table includes the fundamental of chemistry, how to read the periodic table, what do the number means? Physics includes understanding Hooke's Law and Newtons Law of motion and working out density of an object. Planning
Lesson 6	B: Experiment Chemistry and Physics Description: with a range of quick experiments ready and putting the theory learnt to use, this include finding density for a range of objects and understanding motion with forces.

Experiment:



- Using a microscope to identify cells and objects
- Finding density of different materials
- Understanding melting points and boiling points
- Using equipment to find the force to overcome friction
- Hydroponics Practical – assembling a system to grow vegetables!



Year 7 to Year 9 English

Y7 Summer course class structure

Lesson 1	<p>Satire fiction</p> <p><u>The Most Dangerous Game by Richard Connell</u></p> <ul style="list-style-type: none"> • Reading comprehension • Thematic exploration • Vocabulary familiarisation • Literary analysis <p><u>Love in a Cottage by Nathaniel Parker Willis</u></p> <ul style="list-style-type: none"> • Reading comprehension • Thematic exploration • Vocabulary familiarisation • Literary analysis
Lesson 2	
Lesson 3	
Lesson 4	<p>Course Description on Writing</p> <ul style="list-style-type: none"> • <u>Narrative writing</u> • Freytag's pyramid • Literary devices in writing short stories Ø Individual commentary • <u>Transactional writing</u> • <u>Autobiographical writing</u>
Lesson 5	
Lesson 6	

Y8 Summer course class structure

	Content
Lesson 1	Course Description on Reading Gothic literature <ul style="list-style-type: none"> □ <i>The Hanging Stranger</i> by Philip K. Dick □ Reading comprehension □ Thematic exploration □ Vocabulary familiarisation □ Literary analysis
Lesson 2	
Lesson 3	
Lesson 4	Course Description on Writing Narrative writing <ul style="list-style-type: none"> □ Freytag's pyramid □ Literary devices in writing short stories □ Individual commentary Transactional writing <ul style="list-style-type: none"> □ Informal letter writing
Lesson 5	
Lesson 6	

Y9 Summer course class structure

	Content
Lesson 1	Course Description on Reading Science fiction literature <ul style="list-style-type: none"> □ <i>There will come the soft rains</i> by Ray Bradbury □ Reading comprehension □ Thematic exploration □ Vocabulary familiarisation □ Literary analysis
Lesson 2	
Lesson 3	
Lesson 4	Course Description on Writing Narrative writing <ul style="list-style-type: none"> □ Freytag's pyramid □ Literary devices in writing short stories □ Individual commentary Transactional writing <ul style="list-style-type: none"> □ Persuasive writing
Lesson 5	
Lesson 6	

Year 7 to Year 9 Chinese

A: (For advanced-level students)(IGCSE 1st lang/IBMYP)

Summer course class structure (for Y7,Y8,Y9)

	課程重點
Lesson 1	閱讀理解白話文一篇 學習基本修辭技巧:比喻、擬人、誇張、排比
Lesson 2	寫作練習:記敘文 學習記敘手法
Lesson 3	閱讀理解文言文一篇 學習基本古文知識
Lesson 4	寫作練習:描寫文 學習描寫手法
Lesson 5	閱讀理解白話文一篇 學習基本答題技巧:段落大意、文章主旨、文章結構作用
Lesson 6	寫作練習:議論文 學習論證手法

B: (For standard-level students)(IGCSE 2nd lang)

Summer course class structure (for Y7,Y8,Y9)

	課程重點
Lesson 1	學習及閱讀成語故事 寫作練習:日記
Lesson 2	學習及閱讀唐詩 寫作練習:書信
Lesson 3	聆聽練習:成語故事 口語訓練:介紹你最難忘的旅遊經歷
Lesson 4	閱讀理解:短問答/選擇題 寫作練習:電子郵件
Lesson 5	閱讀理解:長問答 寫作練習:校刊
Lesson 6	聆聽練習:中國神話故事《女媧造人》 口語訓練:介紹你最喜歡的中國神話傳說