



'A' LEVELS (JC1)

PHYSICS (H2) PROGRAMME SCHEDULE

<i>TERM 1</i>		
WEEK	TOPICS	REMARKS
1	NA	
2	NA	
3	NA	
4	NA	
5	SI Units Tutorial	
6	Errors and Uncertainties	
7	Vectors	
8	Kinematics (Linear)	
9	Kinematics (Linear)	
10	Kinematics (Non-linear)	
March Holiday	Review on JC1 topics and previous topics	Week 1 - 10

Term 2		
WEEK	TOPICS	REMARKS
1	Dynamics I	
2	Dynamics I	
3	Circular Motion	
4	Circular Motion	
5	Forces	
6	Forces	
7	Dynamics II	
8	Dynamics II	
9	Work, Energy, Power	
10	Work, Energy, Power	

June Holiday	Common Test Preparation - Content Revision - Skills Development Practice Questions	
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Term 3		
WEEK	TOPICS	REMARKS
1	Thermal Properties of Materials	
2	Thermal Properties of Materials	
3	Ideal Gas	
4	Ideal Gas	
5	First Law of Thermodynamics	
6	First Law of Thermodynamics	
7	Oscillations	
8	Oscillations	
9	Waves	
10	Waves	
September Holiday	Intensive Prelim Preparation (3 lessons)	Practice Papers

Term 4		
WEEK	TOPICS	REMARKS
1	Superposition	
2	Superposition	
3	Intensive Promotional exam preparation	Practice Papers
4	Intensive Promotional exam preparation	Practice Papers
5	Intensive Promotional exam preparation	Practice Papers
6	Intensive Promotional exam preparation	Practice Papers
7	Intensive Promotional exam preparation	Practice Papers
8	Intensive Promotional exam preparation	Practice Papers
9	Intensive Promotional exam preparation	Practice Papers
10	Intensive Promotional exam preparation	Practice Papers



'A' LEVELS (JC2)

PHYSICS (H2) PROGRAMME SCHEDULE

<i>TERM 1</i>		
WEEK	TOPICS	REMARKS
1	Current of Electricity	Quiz on Mechanics
2	Direct Current	
3	E-Field	
4	E-Field	
5	EM I	
6	EM I & EM part I	Quiz on E-Field, G-Field, Circular motion
7	EMI part I & EMI part II	
8	Thermal Physics part I	
9	Thermal Physics part I & II	
10	Thermal Physics part II	
March Holiday	Review on JC1 topics and previous topics	Week 1 - 10

Term 2		
WEEK	TOPICS	REMARKS
1	Quantum 1 Part I	Review on Thermal Physics
2	Quantum 1 Part II	
3	Quantum 1 Part III	
4	Quantum 1 Part IV	
5	Quantum 2 Part I	
6	Quantum 2 Part II	
7	Quantum 2 Part III	Review on Quantum 1 & 2
8	Nuclear Physics part I	
9	Nuclear Physics part II	
10	Nuclear Physics part III	

June Holiday	Common Test Preparation - Content Revision - Skills Development Practice Questions	
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Term 3		
WEEK	TOPICS	REMARKS
1	Lasers and Semiconductors part I	
2	Lasers and Semiconductors part II	
3	Lasers and Semiconductors part III	
4	Mechanics	Review of topics
5	Circular motion	
6	Gravitation Field	
7	Oscillations	
8	Electric Field	
9	Other Schools Prelim Revision	
10	Other Schools Prelim Revision	
September Holiday	Intensive Prelim Preparation (3 lessons)	Practice Papers

Term 4		
WEEK	TOPICS	REMARKS
1	Prelim exams (no lessons)	
2	Prelim exams (no lessons)	
3	Intensive 'A' level exam preparation	Practice Papers
4	Intensive 'A' level exam preparation	Practice Papers
5	Intensive 'A' level exam preparation	Practice Papers
6	Intensive 'A' level exam preparation	Practice Papers
7	Intensive 'A' level exam preparation	Practice Papers
8	Intensive 'A' level exam preparation	Practice Papers
9	Intensive 'A' level exam preparation	Practice Papers
10	Intensive 'A' level exam preparation	Practice Papers



'A' LEVEL (JC1)

CHEMISTRY (H2) PROGRAMME SCHEDULE

<i>TERM 2</i>		
WEEK	TOPIC	REMARKS
1	Atom, Molecules and Stoichiometry <ul style="list-style-type: none"> - Relative masses of atoms and molecules - The Mole and Avogadro Constant - Determination of Empirical and Molecular formulae - Calculation using Combustion data 	
2	Atom, Molecules and Stoichiometry <ul style="list-style-type: none"> - Calculation using Combustion data 	
3	Atom, Molecules and Stoichiometry <ul style="list-style-type: none"> - Molar volume - Volume of solutions and gases - Back titrations 	
4	Atom, Molecules and Stoichiometry <ul style="list-style-type: none"> - Back titrations - Analysing of Mass Spectra 	
5	Oxidation and Reduction	
6	Atomic Structure <ul style="list-style-type: none"> - Nucleus and electrons - Atomic orbitals - Ionisation Energies 	
7	Chemical Bonding <ul style="list-style-type: none"> - Ionic Bonds - Covalent and Dative Bonds - VSEPR theory 	Test 1 - Atom, Molecules and Stoichiometry
8	Chemical Bonding <ul style="list-style-type: none"> - VSEPR theory - Bond Energy and Bond Polarity - Intermolecular Forces 	
9	States of Matter <ul style="list-style-type: none"> - Ideal gas and its equation, $pV = nRT$ 	
10	Review of test 1 States of Matter <ul style="list-style-type: none"> - The solid state 	

JUNE VACATION

1	Chemical Energetics <ul style="list-style-type: none">- Enthalpy changes- Hess' Law	
2	Chemical Energetics <ul style="list-style-type: none">- Born-Haber Cycle	Test 2 - Chemical Bonding
3	Revision	
4	Review of test 2	

TERM 3

WEEK	TOPIC	REMARKS
1	Equilibria <ul style="list-style-type: none">- Factors affecting Chemical Equilibria- Equilibrium Constants, K_c and K_p	
2	Equilibria <ul style="list-style-type: none">- Calculations involving K_c and K_p	
3	Equilibria <ul style="list-style-type: none">- Haber Process- Bronsted-Lowry Theory of Acids and Bases- Strong acids and bases- pH- K_a and K_b	
4	Equilibria <ul style="list-style-type: none">- Calculatons involving K_a and K_b	Test 3 - Chemical Energetics
5	Equilibria <ul style="list-style-type: none">- Acid-Base titrations	
6	Review of test 3 Equilibria <ul style="list-style-type: none">- Buffer Solutions	
7	Equilibria <ul style="list-style-type: none">- Solubility Product	
8	Equilibria <ul style="list-style-type: none">- Common Ion Effect	
9	Reaction Kinetics <ul style="list-style-type: none">- Rate Equations- Orders of Reaction- Rate Constant	
10	Reaction Kinetics <ul style="list-style-type: none">- Experimental Determination of Orders of Reaction	
Vacation	Reaction Kinetics <ul style="list-style-type: none">- Reaction Mechanism- Experimental Technique for studying Reaction Rates	Test 4 - Equilibria

TERM 4

WEEK	TOPIC	REMARKS
1	Reaction Kinetics <ul style="list-style-type: none">- The Collision Theory- Factors affecting the rate of reaction- Homogeneous and Heterogeneous Catalysis	
2	Review of test 4 Organic Chemistry : Introductory Topics <ul style="list-style-type: none">- Functional Groups- Naming of organic Compounds- Isomerism	
3	Hydrocarbon <ul style="list-style-type: none">- Alkanes- Free radical reactions- Crude oil and cracking	
4	Revision <ul style="list-style-type: none">- Atom, Molecules and Stoichiometry- Atomic Structure- Chemical Bonding	Test 5 - Reaction Kinetics
5	Revision <ul style="list-style-type: none">- States of Matter- Chemical Energetics	
6	Revision <ul style="list-style-type: none">- Equilibria	
7	Review of test 5 Revision <ul style="list-style-type: none">- Reaction Kinetics	
8	Revision <ul style="list-style-type: none">- Organic Chemistry	

'A' LEVEL (JC2)

CHEMISTRY (H2) PROGRAMME SCHEDULE

<i>TERM 1</i>		
WEEK	TOPIC	REMARKS
1	No classes	
2	Organic Chemistry: Introductory Topics <ul style="list-style-type: none"> • Functional groups and the naming of organic compounds • Isomerism: structural; cis-trans; optical 	
3	Organic Chemistry: Hydrocarbons <ul style="list-style-type: none"> • Alkanes • Alkenes • Arenes 	
4	Organic Chemistry: Halogen derivatives <ul style="list-style-type: none"> • Halogenoalkanes & halogenoarenes 	
5	Organic Chemistry: Hydroxy Compounds <ul style="list-style-type: none"> • Alcohols • Phenol 	Test on Isomerism and Hydrocarbons
6	Organic Chemistry: Carbonyl Compounds <ul style="list-style-type: none"> • Aldehydes • Ketones 	
7	Organic Chemistry: Carboxylic Acids and Derivatives <ul style="list-style-type: none"> • Carboxylic acids • Acyl chlorides • Esters 	
8	Organic Chemistry: Nitrogen Compounds <ul style="list-style-type: none"> • Amines • Amides • Amino acids • Proteins 	
9	Organic Chemistry: Polymerisation <ul style="list-style-type: none"> • Addition polymerization • Condensation polymerisation 	
10	Structural Identification of Organic Compounds by NMR spectroscopy	Test on Organic Chemistry

Vacation	Review of test / Preparation of CT1	
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TERM 2		
WEEK	TOPIC	REMARKS
1	Electrochemistry <ul style="list-style-type: none"> Redox processes Electrodes potentials 	CT1
2	Electrochemistry <ul style="list-style-type: none"> Electrolysis 	
3	The Periodic Table : Chemical Periodicity <ul style="list-style-type: none"> Physical and Chemical properties of the elements in the third period 	
4	The Periodic Table : Group II <ul style="list-style-type: none"> Physical and Chemical properties 	Test on Electrochemistry
5	The Periodic Table : Group VII <ul style="list-style-type: none"> Physical and Chemical properties Important uses 	
6	Chemical Equilibria : Reversible reactions; Dynamic equilibrium	
7	Ionic Equilibria <ul style="list-style-type: none"> Acid dissociation constants Ph Buffer solutions Solubility product; the common ion effect 	
8	Chemical Energetics <ul style="list-style-type: none"> Enthalpy changes Hess' Law 	Test on The Periodic Table
9	Reaction Kinetics <ul style="list-style-type: none"> Rate Equations Effect of temperature on rate constants; the concept of activation energy Homogeneous and heterogeneous catalysis 	
10	Review of 1st semester topics	

JUNE VACATION

1	Preparation for CT2	
2	Preparation for CT2	
3	Preparation for CT2	
4	Preparation for CT2	

TERM 3

WEEK	TOPIC	REMARKS
1	Introduction to Transition Elements <ul style="list-style-type: none">Physical and Chemical propertiesOxidation StatesRedox Reactions	
2	Introduction to Transition Elements <ul style="list-style-type: none">ComplexesCatalysisLigand Exchanges	
3	Environmental Chemistry Option <ul style="list-style-type: none">The Atmosphere	
4	Environmental Chemistry Option <ul style="list-style-type: none">The Chemical Structure of Soil	
5	Environmental Chemistry Option <ul style="list-style-type: none">The Water Cycle	Test on Transition Elements
6	Environmental Chemistry Option <ul style="list-style-type: none">Waste Management	
7	Revision : Atoms, Molecules and Stoichiometry	
8	Revision : Atomic Structure	
9	Revision : Chemical Bonding	
10	Revision : States of Matter	
Vacation	Revision : Organic Chemistry	

TERM 4

WEEK	TOPIC	REMARKS
1	Revision : Chemical Energetics	Test on Environmental Chemistry Option
2	Revision : Electrochemistry	
3	Revision : Equilibria	
4	Revision : Reaction Kinetics	
5	Revision : The Periodic Table	
6	Revision : Transition Elements	
7	Practical : Calculations on volumetric analysis	
8	Practical : Assessment of Planning Skills	Mock Exam



'A' LEVELS (JC1)

BIOLOGY (H2) PROGRAMME SCHEDULE

<i>TERM 1</i>		
WEEK	TOPICS	REMARKS
1		
2		
3		
4		
5		
6		
7	Cell structure and functions (Part 1)	
8	Cell structure and functions (Part 2)	
9	Biological Molecules (Part 1)	
March Holiday		Week 1 - 10

Term 2		
WEEK	TOPICS	REMARKS
1	Biological Molecules (Part 2) Enzymes	
2	Cell and Nuclear Division (Part 1)	
3	Cell and Nuclear Division (Part 2)	
4	Photosynthesis (Part 1)	
5	Photosynthesis (Part 2) Respiration (Part 1)	
6	Respiration (Part 2)	
7	Genetic basis for variation (Part 1)	
8	Genetic basis for variation (Part 2)	
9	Organisation and control of prokaryotic and Eukaryotic genome (Part 1)	
10	Organisation and control of prokaryotic and Eukaryotic genome (Part 2)	

June Holiday	Common Test Preparation <ul style="list-style-type: none"> - Content Revision - Skills Development - Practice Questions - Using keywords to answer certain questions - Answering techniques 	Topics to be confirmed nearer towards the actual date
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Term 3		
WEEK	TOPICS	REMARKS
1	Genetics of Bacteria (part 1)	
2	Genetics of Bacteria (part 2)	
3	Genetics of Viruses (Part 1)	
4	Genetics of Viruses (Part 2)	
5	Diversity and Evolution (Part 1)	Review of topics
6	Diversity and Evolution (Part 2)	
7	Organisation and control of prokaryotic and Eukaryotic genome (Part 1)	
8	Organisation and control of prokaryotic and Eukaryotic genome (Part 2)	
9	Revision Session 1	
10	Revision Session 2	
September Holiday	Revision Session 3 Holiday Intensive Preparation Class <i>Topics to be confirmed nearer to the date</i>	Practice Papers

Term 4		
WEEK	TOPICS	REMARKS
1	Intensive 'Promotional' exam preparation	
2	Intensive 'Promotional' exam preparation	
3	Intensive 'Promotional' exam preparation	Practice Questions
4	Intensive 'Promotional' exam preparation	Practice Questions
5	Intensive 'Promotional' exam preparation	Practice Questions
6	Intensive 'Promotional' exam preparation	Practice Questions
7	Intensive 'Promotional' exam preparation	Practice Questions
8	Intensive 'Promotional' exam preparation	Practice Questions
9	Intensive 'Promotional' exam preparation	Practice Questions
10	Intensive 'Promotional' exam preparation	Practice Questions



'A' LEVELS (JC2)

BIOLOGY (H2) PROGRAMME SCHEDULE

<i>TERM 1</i>		
WEEK	TOPICS	REMARKS
1		
2		
3		
4		
5		
6		
7	Isolating, Cloning and Sequencing (Part 1)	
8	Isolating, Cloning and Sequencing (Part 2)	
9	Application Topics (Plant cloning, Gene therapy, Genetically modified organism)	
March Holiday	Stem Cells and Review Questions of JC 1 And Holiday Crash Course for some topics	Week 1 - 10

Term 2		
WEEK	TOPICS	REMARKS
1	Diversity and Evolution (Part 1)	
2	Diversity and Evolution (Part 2)	
3	Homeostasis and hormonal control	
4	Cell Signaling and Communication	
5	Nervous control	
6	Genetic basis for variation (Part 1)	
7	Genetic basis for variation (Part 2)	
8	Respiration and Photosynthesis (Part 1)	
9	Respiration and Photosynthesis (Part 2)	
10	Biological Molecules	

June Holiday	Common Test Preparation <ul style="list-style-type: none"> - Content Revision - Skills Development - Practice Questions - Using keywords to answer certain questions - Answering techniques 	
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Term 3		
WEEK	TOPICS	REMARKS
1	Cell Structures and Enzymes	
2	Cell and Nuclear division and Cancer	
3	Genetics of bacteria	
4	Genetics of Viruses	
5	Topical Revision of Past years' Papers	Review of topics
6	Topical Revision of Past years' Papers	
7	Topical Revision of Past years' Papers	
8	Topical Revision of Past years' Papers	
9	Other Schools Prelim Revision	
10	Other Schools Prelim Revision	
September Holiday	Intensive Prelim Preparation (3 lessons)	Practice Papers

Term 4		
WEEK	TOPICS	REMARKS
1	Prelim exams (no lessons)	
2	Prelim exams (no lessons)	
3	Intensive 'A' level exam preparation	Practice Papers
4	Intensive 'A' level exam preparation	Practice Papers
5	Intensive 'A' level exam preparation	Practice Papers
6	Intensive 'A' level exam preparation	Practice Papers
7	Intensive 'A' level exam preparation	Practice Papers
8	Intensive 'A' level exam preparation	Practice Papers
9	Intensive 'A' level exam preparation	Practice Papers
10	Intensive 'A' level exam preparation	Practice Papers



'A' LEVEL (JC1)

ECONOMICS (H2) PROGRAMME SCHEDULE

Term 2		
WEEK	TOPICS	REMARKS
1	<p>Introduction to Microeconomic</p> <ul style="list-style-type: none"> ▪ Scarcity, choice and resource allocation ▪ Production Possibility Curve – curve and shift <p>Efficient Allocation of resources</p> <ul style="list-style-type: none"> ▪ Productive and Allocative Efficiency <p>Different Allocative mechanism</p> <ul style="list-style-type: none"> ▪ Markets and Price Mechanism 	
2	<p>Demand</p> <ul style="list-style-type: none"> ▪ Individual and Market ▪ Factors influencing market demand ▪ Movement and shift of a demand curve <p>Supply</p> <ul style="list-style-type: none"> ▪ Individual and Market ▪ Factors influencing market supply ▪ Movement and shift of a supply curve <p>The Market</p> <ul style="list-style-type: none"> ▪ Equilibrium Price and Quantity ▪ Consumer and Producer Surplus 	
3	<p>Demand</p> <ul style="list-style-type: none"> ▪ Individual and Market ▪ Factors influencing market demand ▪ Movement and shift of a demand curve <p>Supply</p> <ul style="list-style-type: none"> ▪ Individual and Market ▪ Factors influencing market supply ▪ Movement and shift of a supply curve <p>The Market</p> <ul style="list-style-type: none"> ▪ Equilibrium Price and Quantity ▪ Consumer and Producer Surplus ▪ 	

4	Price, Income and Cross Elasticities of Demand & Price Elasticity of Supply <ul style="list-style-type: none"> ▪ Factors influencing these elasticities 	
5	Price, Income and Cross Elasticities of Demand & Price Elasticity of Supply <ul style="list-style-type: none"> ▪ Factors influencing these elasticities 	
6	Price, Income and Cross Elasticities of Demand & Price Elasticity of Supply <ul style="list-style-type: none"> ▪ Factors influencing these elasticities 	
7	Applications of Demand and Supply <ul style="list-style-type: none"> ▪ Taxes and Subsidies 	
8	Applications of Demand and Supply <ul style="list-style-type: none"> ▪ Taxes and Subsidies 	
9	Theory of Production and Cost <ul style="list-style-type: none"> ▪ Short Run and Long Run 	
10	Theory of Production and Cost <ul style="list-style-type: none"> ▪ Short Run and Long Run 	

June Holiday	Preparation for Common Test <ul style="list-style-type: none"> ▪ Go through series of essays and case studies from ten-year series / various JCs' common test / promos / prelim papers 	
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Term 3		
WEEK	TOPICS	REMARKS
1	Market Structure – Perfect Competition	
2	Market Structure – Monopoly	
3	Market Structure – Monopoly	
4	Market Structure – Oligopolistic Competition	
5	Market Structure – Oligopolistic Competition	
6	Market Structure – Monopolistic Competition	
7	Market Failure	
8	Market Failure	
9	Revision of all topics for the year	
10	Revision of all topics for the year	
September Holiday	Preparation for Promos <ul style="list-style-type: none"> ▪ Go through series of essays and case studies from ten-year series / various JCs' common test / promos / prelim papers 	

** All lessons will teach aspects of essay writing and case study skills, on top of content delivery. Discussions on current global events and developments are also included in these tutorials.

** Where appropriate, the tutor will conduct small tests to ascertain level of subject proficiency of the student. Due reminders will be given ahead of time so that students can prepare for them.



'A' LEVEL (JC2)

ECONOMICS (H2) PROGRAMME SCHEDULE

<i>TERM 1</i>		
WEEK	TOPICS	REMARKS
1	NA	
2	Introduction to Macroeconomics <ul style="list-style-type: none"> ▪ Scope of macroeconomics ▪ Macroeconomic goals & problems ▪ Macroeconomic policies 	
3	National Income Accounting & Standard of Living (SOL)	
4	Theory of Income & Employment <ul style="list-style-type: none"> ▪ Overview of Keynesian Model ($AE = C + I + G + [X-M]$) 	
5	Theory of Income & Employment <ul style="list-style-type: none"> ▪ Overview of Keynesian Model ($AE = C + I + G + [X-M]$) 	
6	AD-AS model	
7	Macroeconomic problems of Unemployment and Inflation <ul style="list-style-type: none"> ▪ Causes and effects 	
8	Macroeconomic problems of Unemployment and Inflation <ul style="list-style-type: none"> ▪ Causes and effects 	
9	Monetary Policy (MP) and Interest Rate Determination <ul style="list-style-type: none"> ▪ Liquidity preference theory and Loanable funds theory ▪ MP as a solution to macroeconomic problems and its limitations 	

10	Monetary Policy (MP) and Interest Rate Determination <ul style="list-style-type: none">▪ Liquidity preference theory and Loanable funds theory▪ MP as a solution to macroeconomic problems and its limitations	
March Holiday	Preparation for Common Test	

<i>TERM 2</i>		
WEEK	TOPICS	REMARKS
1	Fiscal Policy (FP) <ul style="list-style-type: none"> ▪ FP as a solution to macroeconomic problems and its limitations 	
2	Fiscal Policy (FP) <ul style="list-style-type: none"> ▪ FP as a solution to macroeconomic problems and its limitations 	
3	Macroeconomic problem of unsustainable economic growth <ul style="list-style-type: none"> ▪ Causes and effects 	
4	Supply side-policies (SSP) <ul style="list-style-type: none"> ▪ SSP as a solution to macroeconomic problems and its limitations 	
5	Supply side-policies (SSP) <ul style="list-style-type: none"> ▪ SSP as a solution to macroeconomic problems and its limitations 	
6	International Trade – Free Trade and Protectionism <ul style="list-style-type: none"> ▪ Law of Comparative Advantage ▪ Benefits from Free Trade ▪ Justifications for Protectionism ▪ Methods of Protectionism 	
7	International Trade – Free Trade and Protectionism <ul style="list-style-type: none"> ▪ Law of Comparative Advantage ▪ Benefits from Free Trade ▪ Justifications for Protectionism ▪ Methods of Protectionism 	
8	Exchange Rates	
9	Macroeconomic problem of Balance of Payments disequilibrium <ul style="list-style-type: none"> ▪ Causes and effects ▪ Solutions to the problem and its limitations 	
10	Macroeconomic problem of Balance of Payments disequilibrium <ul style="list-style-type: none"> ▪ Causes and effects ▪ Solutions to the problem and its limitations 	

June Holiday	Preparation for Common Test <ul style="list-style-type: none"> ▪ Go through series of essays and case studies from ten-year series / various JCs' common test / promos / prelim papers 	
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Term 3		
WEEK	TOPICS	REMARKS
1	Globalisation	
2	Globalisation	
3	Microeconomics Revision – Demand, Supply, and Elasticities	
4	Microeconomics Revision – Demand, Supply, and Elasticities	
5	Microeconomics Revision – Demand, Supply, and Elasticities	
6	Microeconomics Revision – Market Structure	
7	Microeconomics Revision – Market Structure	
8	Microeconomics Revision – Market Structure	
9	Microeconomics Revision – Market Failure	
10	Microeconomics Revision – Market Failure	
September Holiday	Macroeconomics Revision	

Term 4		
WEEK	TOPICS	REMARKS
1	Prelim exams (no lessons)	
2	Prelim exams (no lessons)	
3	Intensive 'A' level exam preparation <ul style="list-style-type: none"> ▪ Go through series of essays and case studies from ten-year series / various JCs' common test / promos / prelim papers 	Practice Papers
4	Intensive 'A' level exam preparation <ul style="list-style-type: none"> ▪ Go through series of essays and case studies from ten-year series / various JCs' common test / promos / prelim papers 	Practice Papers
5	Intensive 'A' level exam preparation <ul style="list-style-type: none"> ▪ Go through series of essays and case studies from ten-year series / various JCs' common test / promos / prelim papers 	Practice Papers
6	Intensive 'A' level exam preparation <ul style="list-style-type: none"> ▪ Go through series of essays and case studies from ten-year series / various JCs' common test / promos / prelim papers 	Practice Papers
7	Intensive 'A' level exam preparation <ul style="list-style-type: none"> ▪ Go through series of essays and case studies from ten-year series / various JCs' common test / promos / prelim papers 	Practice Papers
8	Intensive 'A' level exam preparation <ul style="list-style-type: none"> ▪ Go through series of essays and case studies from ten-year series / various JCs' common test / promos / prelim papers 	Practice Papers
9	Intensive 'A' level exam preparation <ul style="list-style-type: none"> ▪ Go through series of essays and case studies from ten-year series / various JCs' common test / promos / prelim papers 	Practice Papers
10	Intensive 'A' level exam preparation <ul style="list-style-type: none"> ▪ Go through series of essays and case studies from ten-year series / various JCs' common test / promos / prelim papers 	Practice Papers



'A' LEVELS (JC2)

MATHEMATICS (H2) PROGRAMME SCHEDULE

<i>TERM 1</i>		
WEEK	TOPICS	REMARKS
1	NA	
2	Integration Techniques	
3	Integration Techniques	
4	Integration Techniques	
5	Integration Techniques	
6	Applications of Integration	
7	Applications of Integration	
8	Differential Equations	
9	Differential Equations	
10	Vectors Part 1	
March Holiday	Revision for March common test	

Term 2		
WEEK	TOPICS	REMARKS
1	Vectors Part 2	
2	Vectors Part 2	
3	Vectors Part 3	
4	Vectors Part 3	
5	Complex Numbers (Algebra)	
6	Complex Numbers (Algebra)	
7	Complex Numbers (Loci)	
8	Binomial/Poisson/Normal Distribution	
9	Binomial/Poisson/Normal Distribution	
10	Binomial/Poisson/Normal Distribution	

June Holiday	Revision for June Common Test	
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Term 3		
WEEK	TOPICS	REMARKS
1	Hypothesis Testing	
2	Hypothesis Testing	
3	Sampling Theory	
4	Correlation and Regression	
5	Correlation and Regression	
6	Selected pure Maths topics for revision	
7	Selected pure Maths topics for revision	
8	Selected pure Maths topics for revision	
9	Selected pure Maths topics for revision	
10	Selected pure Maths topics for revision	
September Holiday	Topical Revision	Practice Papers

Term 4		
WEEK	TOPICS	REMARKS
1	Prelim exams (no lessons)	
2	Prelim exams (no lessons)	
3	Intensive 'A' level exam preparation	Practice Papers
4	Intensive 'A' level exam preparation	Practice Papers
5	Intensive 'A' level exam preparation	Practice Papers
6	Intensive 'A' level exam preparation	Practice Papers
7	Intensive 'A' level exam preparation	Practice Papers
8	Intensive 'A' level exam preparation	Practice Papers
9	Intensive 'A' level exam preparation	Practice Papers
10	Intensive 'A' level exam preparation	Practice Papers



'A' LEVEL (JC2)

GENERAL PAPER PROGRAMME SCHEDULE

<i>TERM 1</i>		
WEEK	TOPIC	REMARKS
2	Overview of General Paper <ul style="list-style-type: none"> • Paper 1 format, grading and requirements • Paper 2 format, grading and requirements Paper 1 <ul style="list-style-type: none"> • Essay Questions - Types • Approach and Requirements -Essay skills Structure skills - Introduction, Paragraphs and conclusion Reading key words, implied meaning and addressing the question Introduction- 3 step introduction	Handouts & Sample A grade essay for analysis Handouts
3	Analysis of sample introductions Language skills - tone, style, cohesive devices, paraphrasing key words in question, qualified stands	Sample handouts
4	Argumentation skills - checking for relevance Content skills - breadth and depth of arguments Introduction writing practice- Essay outlines on science (biotechnology)	Worksheets Cambridge Exam

		question for practice
5	<p>Paragraph writing – structure and language</p> <p>Essay outline practice</p> <p>Continue with essay outlines on science-</p> <ul style="list-style-type: none"> - Government and health - Nuclear technology 	Cambridge and JC exam questions
6	<p>Reinforce application of good intro and paragraph writing</p> <p>Discussion and essay outline on question on religion</p>	JC exam question
7	<p>Discussion and essay outline on media and science questions</p> <p>-Comprehension Skills</p> <ul style="list-style-type: none"> • Inference skills- categories of inference questions & grading criteria and to answer them 	<p>Cambridge and JC exam questions</p> <p>Handouts and worksheets from Cambridge and JC exam questions</p>
8	-Comprehension Skills continued	
9	<p>AQ skills</p> <ul style="list-style-type: none"> -requirements and grading criteria - types of AQ questions and how to answer them -AQ answer structure & time management strategies 	Handouts and sample questions And sample full mark AQ answers from Cambridge & JC Examination Papers
10	<p>Summary skills-</p> <ul style="list-style-type: none"> - 3 step method (detail selection, paraphrasing and 	Handout with eggs

	cohesion) Vocabulary skills – 3 step method (connotation, intensity and context)	Handout with eggs
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TERM 2

WEEK	TOPIC	REMARKS
1	<ul style="list-style-type: none">• AQ Questions for practice	JC exam compre passages & AQ question. Samples of AQ full mark answers
2	Vocabulary Questions practice Vocabulary Exercise - homework answers	Cambridge and JC exam questions Worksheet
3	Essay - General / Abstract Questions Skills in choosing and answering them Sample questions for essay outline practice	Cambridge and JC exam questions
4	Essay Media Questions Sample questions for essay outline practice	Introduction Essay Outline Cambridge and JC exam questions
5	Essay – Government, politics, war Questions Sample questions for practice	Introduction Essay Outline Cambridge and JC exam questions
6	Essay – Government, politics, war Questions cont'd Sample questions for practice	Introduction Essay Outline Cambridge and JC exam questions
7	Comprehension practice – Sample paper	Cambridge and JC exam questions

8	<p>Essay – Global (environment, poverty, globalization) issues Questions</p> <p>Sample questions for practice – essay outline</p>	<p>Introduction</p> <p>Essay Outline</p> <p>Cambridge and JC exam questions</p>
9	<p>Comprehension practice – Sample paper</p>	<p>Cambridge and JC exam questions</p>
10	<p>Sample exam paper for practice</p> <p>Hand in full essay for marking</p>	<p>Cambridge exam questions</p>
Vacation		

TERM 3

WEEK	TOPIC	REMARKS
1	Essay – Global (environment, poverty, globalization) issues Questions cont’d Sample questions for practice – essay outline	Cambridge and JC exam questions
2	Comprehension practice – Sample paper	Cambridge and JC exam questions
3	Essay - Social Issues Questions Sample questions for practice-essay outline	Cambridge and JC exam questions
4	Essay –Arts, Philosophy questions Sample questions for practice-essay outline	Cambridge and JC exam questions
5	Essay – Media Questions cont’d Sample questions for essay outline practice	Introduction Essay Outline Cambridge and JC exam questions
6	Essay – Media Questions cont’d Sample questions for essay outline practice	Introduction Essay Outline Cambridge and JC exam questions
7	Comprehension practice – Sample paper	Cambridge and JC exam questions

8	<p>Essay –Science Questions Sample questions for practice – essay outline</p> <p>Sample questions for practice- essay outline</p>	<p>Introduction</p> <p>Essay Outline Cambridge and JC exam questions</p>
9	<p>Comprehension practice – Sample paper</p>	<p>Cambridge and JC exam questions</p>
10	<p>Sample exam paper for practice Hand in full essay for marking</p>	<p>Cambridge exam questions</p>
Vacation		

TERM 4

WEEK	TOPIC	REMARKS
1	Review of Essay skills, structure and content Choosing exam questions	Cambridge and JC exam questions
2	Essay Media Questions Sample questions for essay outline practice	Introduction Essay Outline Cambridge and JC exam question
3	Review of AQ skills, structure and content Practice of AQ question	Cambridge and JC exam questions
4	Essay – Selection of sample questions practice	Cambridge and JC exam questions
5	Essay – Selection of sample questions practice	Cambridge and JC exam questions
6	Essay – Selection of sample questions practice	Cambridge and JC exam questions
7	Comprehension - Practice paper	Cambridge and JC exam questions
8	Comprehension - Practice paper	Cambridge and JC exam questions