

**Junyuan Secondary School
2018 SA2 Topics**

Subject: English Language

Level/Stream	SA2 Topics
1E	<ul style="list-style-type: none"> ● Paper 1: Editing, SW (Informal Email), CW (Personal Recount, Descriptive) ● Paper 2: Texts 1, 2 and 3 ● Paper 3: Listening Comprehension ● Paper 4: Alternative Assessment (Reading Component)
1NA	<ul style="list-style-type: none"> ● Paper 1: Editing, SW (Informal Email), CW (Personal Recount, Descriptive) ● Paper 2: Texts 1, 2 and 3 ● Paper 3: Listening Comprehension ● Paper 4: Alternative Assessment (Reading Component)
1NT	<ul style="list-style-type: none"> ● Paper 1: Functional Tasks & Guided Writing ● Paper 2: Language Use & Comprehension ● Paper 3: Listening Comprehension ● Paper 4: Alternative Assessment (Reading Component)
2E	<ul style="list-style-type: none"> ● Paper 1: Editing, CW (Descriptive & Reflective) SW (Formal Letter of Complaint) ● Paper 2: Text 1, 2 and 3 ● Paper 3: Listening Comprehension ● Paper 4: Oral Communication
2NA	<ul style="list-style-type: none"> ● Paper 1: Editing, CW (Descriptive & Reflective) SW (Formal Letter of Complaint) ● Paper 2: Text 1, 2 and 3 ● Paper 3: Listening Comprehension ● Paper 4: Oral Communication
2NT	<ul style="list-style-type: none"> ● Paper 1: Functional Tasks & Guided Writing ● Paper 2: Language Use & Comprehension ● Paper 3: Listening Comprehension ● Paper 4: Oral Communication
3E	<ul style="list-style-type: none"> ● Paper 1: Editing + CW (Argumentative, Reflective) + SW (Formal Email) ● Paper 2: Text 1, 2 and 3 ● Paper 3: Listening Comprehension
3NA	<ul style="list-style-type: none"> ● Paper 1: Editing + CW (Argumentative, Reflective) + SW (Formal Email) ● Paper 2: Text 1, 2 and 3 ● Paper 3: Listening Comprehension
3NT	<ul style="list-style-type: none"> ● Paper 1: Functional Tasks & Guided Writing ● Paper 2: Language Use & Comprehension ● Paper 3: Listening Comprehension ● Paper 4: Oral Communication (Alternative Assessment)

Junyuan Secondary School
2018 SA2 Topics

Subject: English Literature

Level/Stream	SA2 Topics
1E	Unseen and set poetry, literary devices and form Set Text - <i>Pay It Forward</i> + themes
1NA	Unseen and set poetry, literary devices and form Set Text - <i>Pay It Forward</i> + themes
2E	Unseen and set poetry(Characterisation, mood and atmosphere) Set Text - <i>The Honest Truth</i> (Characterisation and theme)
2NA	Unseen and set poetry (Characterisation and mood and atmosphere) Set Text - <i>The Honest Truth</i> (Characterisation and theme)
3E	Set Text - <i>Off Centre</i> (Characterisation, Themes, Techniques) Unseen Poem (literary devices)

Junyuan Secondary School
2018 SA2 Topics

Subject: Chinese Language

Level/Stream	SA2 Component
1E	<u>Paper 1</u> <ul style="list-style-type: none"> ● Email Letter Writing ● Essay Writing <u>Paper 2</u> <ul style="list-style-type: none"> ● Vocabulary from textbook ● Cloze Passage ● Comprehension A (MCQ) ● Comprehension B (Open-ended)
1NA	<u>Paper 1</u> <ul style="list-style-type: none"> ● Email Letter Writing ● Essay Writing <u>Paper 2</u> <ul style="list-style-type: none"> ● Vocabulary from textbook ● Cloze Passage ● Comprehension A (MCQ) ● Comprehension B (Open-ended)
1NT	<u>Paper 1</u> <ul style="list-style-type: none"> ● Vocabulary from ● textbook ● Complete the Dialogue in Passage Form (With helping words) ● Advertisement (Analysis the Information)
2E	<u>Paper 1</u> <ul style="list-style-type: none"> ● Email Letter Writing ● Essay Writing <u>Paper 2</u> <ul style="list-style-type: none"> ● Vocabulary from textbook ● Cloze Passage ● Comprehension A (MCQ) ● Comprehension B (Open-ended)
2NA	<u>Paper 1</u> <ul style="list-style-type: none"> ● Informal Letter Writing ● Essay Writing <u>Paper 2</u> <ul style="list-style-type: none"> ● Vocabulary from textbook ● Cloze Passage ● Comprehension A (MCQ) ● Comprehension B (Open-ended)
2NT	<u>Paper 1</u> <ul style="list-style-type: none"> ● Vocabulary from textbook ● Complete the Dialogue in Passage Form (With helping words) ● Advertisement (Analysis the Information)
3E	<u>Paper 1</u> <ul style="list-style-type: none"> ● Email Letter Writing ● Essay Writing

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	<u>Paper 2</u> <ul style="list-style-type: none"> ● Vocabulary from textbook ● Cloze Passage ● Comprehension A (MCQ) ● Comprehension B (Open-ended)
3NA	<u>Paper 1</u> <ul style="list-style-type: none"> ● Email Letter Writing ● Essay Writing <u>Paper 2</u> <ul style="list-style-type: none"> ● Vocabulary from textbook ● Cloze Passage ● Comprehension A (MCQ) ● Comprehension B (Open-ended)
3NT	<u>Paper 1</u> <ul style="list-style-type: none"> ● Vocabulary from textbook ● Complete the Dialogue in Passage Form (With helping words) ● Advertisement (Analysis the Information)

Subject: Chinese Language (B)

Level/Stream	SA2 Component
3E	<u>Paper 1</u> <ul style="list-style-type: none"> ● Picture Essay Writing (e format) ● Informal Letter Writing (e format) <u>Paper 2</u> Comprehension (MCQ)
3N	<u>Paper 1</u> <ul style="list-style-type: none"> ● Picture Essay Writing (e format) ● Informal Letter Writing (e format) <u>Paper 2</u> Comprehension (MCQ)

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Subject: Malay Language

Level/Stream	SA2 Topics
1E	<u>Paper 1</u> <ul style="list-style-type: none">● Informal/Formal Letter Writing● Essay Writing <u>Paper 2</u> <ul style="list-style-type: none">● Prefixes/Suffixes● Idioms● Cloze Passage● Comprehension (Objective)● Comprehension (Open-ended) <u>Paper 3</u> <ul style="list-style-type: none">● Oral
1NA	<u>Paper 1</u> <ul style="list-style-type: none">● Informal/Formal Letter Writing● Essay Writing <u>Paper 2</u> <ul style="list-style-type: none">● Prefixes/Suffixes● Idioms● Cloze Passage● Comprehension (Objective)● Comprehension (Open-ended) <u>Paper 3</u> <ul style="list-style-type: none">● Oral
1NT	<u>Paper 1</u> <ul style="list-style-type: none">● Grammar● Comprehension <u>Paper 2</u> <ul style="list-style-type: none">● Oral
2E	<u>Paper 1</u> <ul style="list-style-type: none">● Informal/Formal Letter Writing● Essay Writing <u>Paper 2</u> <ul style="list-style-type: none">● Prefixes/Suffixes● Idioms● Cloze Passage● Comprehension (Objective)● Comprehension (Open-ended) <u>Paper 3</u> <ul style="list-style-type: none">● Oral
2NA	<u>Paper 1</u> <ul style="list-style-type: none">● Informal/Formal Letter Writing● Essay Writing <u>Paper 2</u> <ul style="list-style-type: none">● Prefixes/Suffixes● Idioms● Cloze Passage● Comprehension (Objective)

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	<ul style="list-style-type: none">● Comprehension (Open-ended) <u>Paper 3</u> <ul style="list-style-type: none">● Oral
2NT	<u>Paper 1</u> <ul style="list-style-type: none">● Grammar● Comprehension <u>Paper 2</u> <ul style="list-style-type: none">● Oral
3E	<u>Paper 1</u> <ul style="list-style-type: none">● Informal/Formal Letter Writing● Essay Writing <u>Paper 2</u> <ul style="list-style-type: none">● Prefixes/Suffixes● Idioms● Cloze Passage● Comprehension (Objective)● Comprehension (Open-ended)
3NA	<u>Paper 1</u> <ul style="list-style-type: none">● Informal/Formal Letter Writing● Essay Writing <u>Paper 2</u> <ul style="list-style-type: none">● Prefixes/Suffixes● Idioms● Cloze Passage● Comprehension (Objective)● Comprehension (Open-ended)
3NT	<ul style="list-style-type: none">● Grammar● Comprehension

**Junyuan Secondary School
2018 SA2 Topics**

Subject: History

Level/Stream	SA2 Topics
2E	<p>Section A - Source Based Question [15m]</p> <ul style="list-style-type: none"> ● Topic - Merger ● 3 questions : Inference/Message/Purpose <p>Section B - Structured-essay Question [20m]</p> <ul style="list-style-type: none"> ● Topics - ● A. Japanese Invasion of Singapore ● B. Separation from Malaysia ● C. Challenges faced by Singapore after 1965 ● Students to answer any 2, out of 3 questions
2NA	<p>Section A - Source Based Question [15m]</p> <ul style="list-style-type: none"> ● Topic - Merger ● 3 questions : Inference/Message/Purpose <p>Section B - Structured-essay Question [20m]</p> <ul style="list-style-type: none"> ● Topics - ● A. Japanese Invasion of Singapore ● B. Separation from Malaysia ● C. Challenges faced by Singapore after 1965 ● Students to answer any 2, out of 3 questions
3E	<p>Section A - Source Based Question [30m]</p> <ul style="list-style-type: none"> ● Topic -Hitler's dictatorship ● Skills tested - Inference/Purpose/ Usefulness /Comparison/ Evaluation <p>Section B - Structured Essay Question [20m]</p> <ul style="list-style-type: none"> ● Topic - Stalin's dictatorship ● Topic - Treaty of Versailles / League of Nations
3NA	<p>Section A - Source Based Question [30m]</p> <ul style="list-style-type: none"> ● Topic -Hitler's dictatorship ● Skills tested - Inference/Purpose/ Usefulness/Comparison/ Evaluation <p>Section B - Structured Essay Question [20m]</p> <ul style="list-style-type: none"> ● Topic - Stalin's dictatorship ● Topic - Treaty of Versailles / League of Nations

Junyuan Secondary School
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Subject: Geography

Level/Stream	SA2 Topics
1E	<p><u>Time: 1H 15 min</u> <u>Marks: 35 marks</u></p> <p><u>Section A: Map Reading (5m)</u></p> <ul style="list-style-type: none">• Topographical Maps (Using Map Symbols, Contour Lines, 4 and 6 figure map grid references, compass directions, compass bearing) <p><u>Section B (15m):</u> Chapter 3: Tropical Rainforest</p> <ul style="list-style-type: none">• Geographical Investigation Skills (Gathering Data, Sketching)• What are tropical rainforests?• What is deforestation?• How does deforestation impact people and the environment? <p>Chapter 4: Water</p> <ul style="list-style-type: none">• The Hydrological Cycle• Why does Water Shortage Occur? <p><u>Section C (15m):</u> Chapter 4: Water</p> <ul style="list-style-type: none">• Which locations in the world are facing water shortage?• How does water shortage impact people and countries?• How can Singapore avoid water shortage?
1NA	<p><u>Time: 1H 15 min</u> <u>Marks: 35 marks</u></p> <p><u>Section A: Map Reading (5m)</u></p> <ul style="list-style-type: none">• Topographical Maps (Using Map Symbols, Contour Lines, 4 and 6 figure map grid references, compass directions, compass bearing) <p><u>Section B (15m):</u> Chapter 3: Tropical Rainforest</p> <ul style="list-style-type: none">• Geographical Investigation Skills (Gathering Data, Sketching)• What are tropical rainforests?• What is deforestation?• How does deforestation impact people and the environment? <p>Chapter 4: Water</p> <ul style="list-style-type: none">• The Hydrological Cycle• Why does Water Shortage Occur? <p><u>Section C (15m):</u> Chapter 4: Water</p> <ul style="list-style-type: none">• Which locations in the world are facing water shortage?• How does water shortage impact people and countries?• How can Singapore avoid water shortage?

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2E	<p><u>Time: 1 hour 15 min</u> <u>Marks: 35marks</u></p> <p><u>Section A: Map Reading (5m)</u></p> <ul style="list-style-type: none">• Topographical Maps (Using Map Symbols, Contour Lines, 4 and 6 figure map grid references, compass directions) <p><u>Section B (15m):</u> Chapter 3: Housing</p> <ul style="list-style-type: none">• What is housing shortage?• Conducting Surveys, Interviews• Representing and Interpreting Data• Why does housing shortage occur?• What are the consequences of housing shortage in cities?• What are some strategies used by cities to manage housing shortage and build inclusive homes? <p>Chapter 5: What are floods?</p> <ul style="list-style-type: none">• What are the types of floods?• Why are these cities more prone to floods than others? <p><u>Section C (15m):</u> Chapter 5: What are floods?</p> <ul style="list-style-type: none">• How do floods affect people living in cities?• How should cities prepare for floods?
2NA	<p><u>Time: 1 hour 15 min</u> <u>Marks: 35marks</u></p> <p><u>Section A: Map Reading (5m)</u></p> <ul style="list-style-type: none">• Topographical Maps (Using Map Symbols, Contour Lines, 4 and 6 figure map grid references, compass directions) <p><u>Section B (15m):</u> Chapter 3: Housing</p> <ul style="list-style-type: none">• What is housing shortage?• Conducting Surveys, Interviews• Representing and Interpreting Data• Why does housing shortage occur?• What are the consequences of housing shortage in cities?• What are some strategies used by cities to manage housing shortage and build inclusive homes? <p>Chapter 5: What are floods?</p> <ul style="list-style-type: none">• What are the types of floods?• Why are these cities more prone to floods than others? <p><u>Section C (15m):</u> Chapter 5: What are floods?</p> <ul style="list-style-type: none">• How do floods affect people living in cities?• How should cities prepare for floods?
3E	<p>Time: 1H 40min Marks: 50 marks</p> <p>Section A (13m):</p>

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	<p>Geographical Investigation and Skills</p> <ul style="list-style-type: none">• Chapter 2 Gateway 1: Why do different places experience different weather and climate?• Chapter 3 Gateway 2 and 3: Geographical Skills and Investigation <p>Section B: Variable Weather and Changing Climate – A Continuing Challenge? (12m)</p> <ul style="list-style-type: none">• Chapter 2 Gateway 2: What is happening to the earth's climate? <p>Section C: Living with Tectonic Hazards (25m)</p> <ul style="list-style-type: none">• Chapter 1 Gateway 1: What are some areas more prone to tectonic hazards?• Chapter 1 Gateway 2: What landforms and associated tectonic phenomena are found at plate boundaries?• Chapter 1 Gateway 3: How do people prepare for and respond to earthquakes?• Chapter 2 Gateway 2: What is happening to the earth's climate?
3NA	<p>Time: 1H 40min Marks: 50 marks</p> <p>Section A (13m): Geographical Investigation and Skills</p> <ul style="list-style-type: none">• Chapter 2 Gateway 1: Why do different places experience different weather and climate?• Chapter 3 Gateway 2 and 3: Geographical Skills and Investigation <p>Section B: Variable Weather and Changing Climate – A Continuing Challenge? (12m)</p> <ul style="list-style-type: none">• Chapter 2 Gateway 2: What is happening to the earth's climate? <p>Section C: Living with Tectonic Hazards (25m)</p> <ul style="list-style-type: none">• Chapter 1 Gateway 1: What are some areas more prone to tectonic hazards?• Chapter 1 Gateway 2: What landforms and associated tectonic phenomena are found at plate boundaries?• Chapter 1 Gateway 3: How do people prepare for and respond to earthquakes?• Chapter 2 Gateway 2: What is happening to the earth's climate?

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Subject: Social Studies

Level/Stream	SA2 Topics
3E	<p>Time: 1 hour 45 minutes</p> <p><u>Section A: SBQ (36m)</u> 1a) Inference (5m) b) Purpose (6m) c) Comparison (7m) d) Reliability (8m) e) Evaluation (10m)</p> <p><u>Section B: SRQ (14m)</u> Part (a) (7m) Part (a) (7m)</p> <p><i>There will be two Part (a) questions and students will have to answer <u>BOTH</u> questions.</i></p>
3NA	<p>Time: 1 hour 45 minutes</p> <p><u>Section A: SBQ (36m)</u> 1a) Inference (5m) b) Message (6m) c) Comparison (7m) d) Reliability (8m) e) Evaluation (10m)</p> <p><u>Section B: SRQ (14m)</u> Part (a) (7m) Part (a) (7m)</p> <p><i>There will be two Part (a) questions and students will have to answer <u>BOTH</u> questions.</i></p>

**Junyuan Secondary School
2018 SA2 Topics**

Subject: Mathematics

Level/Stream	SA2 Topics
1E	1) Prime Number, Factor and Multiple 2) Real Numbers 3) Approximation 4) Introduction to Algebra 5) Algebraic Manipulation 6) Solving Linear Equation 7) Inequality 8) Number Patterns 9) Ratio, Rate and Speed 10) Line, Angle and Triangle 11) Polygon and Geometrical Construction 12) Percentage 13) Coordinates and Linear Function 14) Area and Perimeter of Plane Figure 15) Volume and Surface Area of Solid
1NA	1) Prime Numbers, Factors and Multiples 2) Real Numbers 3) Approximation and Estimation 4) Algebra Manipulation 5) Linear Equations 6) Number Patterns 7) Percentage 8) Ratio, Rate and Speed 9) Perimeter and Area of Plane Figures 10) Volume and Surface area of Prism and Cylinder 11) Statistical Data Handling
1NT	1) Integer 2) The Four Operations of Integer 3) Fraction 4) Decimal 5) Ratio 6) Percentage 7) Algebra 8) Angles and Parallel Lines 9) Symmetry 10) Perimeter and Area 11) Surface Area and Volume of Cube and Cuboid
2E	<p><u>Sec 1 Topics</u></p> 1) Factor and Multiple 2) Algebraic Manipulation: Expansion, Factorisation and Solving 3) Ratio, Rate and Speed 4) Percentage 5) Real Number
	<p><u>Sec 2 Topics</u></p> 1) Volume and Surface Area of Prisms and Cylinders 2) Direct and Inverse Proportions

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	<ul style="list-style-type: none"> 3) Simultaneous Equations 4) Expansion and Factorisation of Quadratic Expression 5) Further Factorisation and Expansion of Quadratic Expression 6) Quadratic Equation and Quadratic Graph 7) Algebraic Fraction and Formula 8) Congruence and Similarity 9) Trigonometry Ratio 10) Pythagoras' Theorem 11) Volume and Surface Area 12) Map and Scale 13) Statistics
2NA	<p><u>Sec 1 Topics</u></p> <ul style="list-style-type: none"> 1) Percentage 2) Estimation 3) Number Pattern 4) Volume 5) Real Number 6) Prime Number, Factor and Multiple 7) Approximation and Estimation 8) Algebra Manipulation 9) Linear Equation 10) Ratio, Rate and Speed <p><u>Sec 2 Topics</u></p> <ul style="list-style-type: none"> 1) Linear Expression, Linear Equation and Simple Inequality 2) Function and Linear Graph 3) Direct and Inverse Proportions 4) Simultaneous Linear Equations 5) Expansion and Factorisation of Algebraic Expression 6) Algebraic Fraction 7) Quadrilateral and Polygon 8) Geometrical Construction 9) Pythagoras' Theorem 10) Volume and Surface Area of Pyramid, Cone and Sphere 11) Statistical Diagrams 12) Averages of Statistical Data - Mean Median and Mode
2NT	<p><u>Sec 1 Topics</u></p> <ul style="list-style-type: none"> 1) Decimal <p><u>Sec 2 Topics</u></p> <ul style="list-style-type: none"> 1) Algebraic Manipulation 2) Linear Equation in One Variable 3) Function and graph 4) Proportion 5) Rate and Speed 6) Triangle and Quadrilateral 7) Congruence and similarity 8) Pythagoras' Theorem 9) Prism and Cylinder 10) Data Analysis 11) Probability

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<p>3E</p>	<p><u>Lower Sec Topics</u></p> <p>1) Expansion and Factorisation of Quadratic Expression 2) Quadratic Equation and Graph 3) Algebraic Fraction and Formula 4) Volume and Surface Area of Pyramid, Cone and Sphere</p> <p><u>Sec 3 Topics</u></p> <p>Chapter 1: Quadratic Equations and Functions Chapter 2: Linear Inequalities Chapter 3: Indices and Standard Form Chapter 4: Coordinate Geometry Chapter 5: Graphs of Functions and Graphical Solution Chapter 6: Further Trigonometry Chapter 7: Applications of Trigonometry Chapter 9: Congruence and Similarity Tests Chapter 10: Area and Volume of Similar Figures and Solids</p>
<p>3NA</p>	<p>1) Real Number and Integer 2) Calculation with Calculator 3) Percentage 4) Math in Real-Life 5) Angle 6) HCF & LCM 7) Expand and Factorise Algebraic Expression 8) Solving of Linear Equation and Factorisation 9) Indices 10) Direct and Indirect Proportion 11) Estimation and Approximation 12) Map and Scale 13) Indices 14) Pythagoras' Theorem 15) Trigonometric Ratio 16) Algebraic Fraction 17) Manipulation of Formula 18) Solving Quadratic Equation 19) Coordinate Geometry 20) Simple and Compound Interest 21) Simultaneous Equation 22) Volume and Surface Area of Pyramid, Cone and Sphere 23) Graph</p>
<p>3NT</p>	<p>1) Numbers and Their Operations 2) Approximation and Estimation 3) Fraction and Ratio 4) Percentage 5) Standard Form and Prefixes 6) Maps & Scales 7) Indices 8) Simplification and Evaluation of Algebraic Expression and Formula (including Algebraic Fraction) 9) Factorisation of Algebraic Expressions 10) Solving Linear Equations 11) Solving Simultaneous Equations in Two Variables 12) Graph of Linear Equations in Two Unknowns</p>

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| | <ul style="list-style-type: none">13) Graph of Quadratic Function14) Money Exchange15) Angle, Triangle and Symmetry16) Congruence and Similarity17) Perimeter and Area of Plane Figure18) Arc Length, Sector Area19) Data Analysis – Representation and Interpretation20) Mean, Mode, Median, Range, Quartile, Percentile21) Cumulative Frequency Curve22) Probability |
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**Junyuan Secondary School
2018 SA2 Topics**

Subject: Additional Mathematics

Level/Stream	SA2 Topics
3E	<ul style="list-style-type: none"> ● Simultaneous Equations, Polynomials and Partial Fractions ● Quadratic Equations, Inequalities and Modulus Functions ● Binomial Theorem ● Indices, Surds and Logarithms ● Coordinate Geometry ● Further Coordinate Geometry ● Linear Law ● Trigonometric Ratios of Special Angles ● General Angles ● Trigonometric Ratios of General Angles
3NA	<ul style="list-style-type: none"> ● Simultaneous Equations and Polynomials ● Quadratic Equations and Inequalities ● Binomial Theorem ● Indices and Surds ● Coordinate Geometry

Subject: Science

Level/Stream	SA2 Topics
1E	<ul style="list-style-type: none"> ● Chapter 1 - The Scientific Endeavour ● Chapter 2 - Exploring Diversity of Matter by its Chemical Composition ● Chapter 3- Exploring Diversity of Matter by its Chemical Composition ● Chapter 4 - Exploring Diversity of Matter Using Separation Techniques ● Chapter 5 - Understanding Diversity of Organisms ● Chapter 6 - Model of Cells - The Basic Units of Life ● Chapter 7 - Particulate Nature of Matter ● Chapter 8 - Model of Matter, Atoms and Molecules ● Chapter 9 - Ray Model of Light
1NA	<ul style="list-style-type: none"> ● Chapter 1 - The Scientific Endeavour ● Chapter 2 - Exploring Diversity of Matter by its Chemical Composition ● Chapter 3- Exploring Diversity of Matter by its Chemical Composition ● Chapter 4 - Exploring Diversity of Matter Using Separation Techniques ● Chapter 5 - Understanding Diversity of Organisms ● Chapter 6 - Model of Cells - The Basic Units of Life ● Chapter 7 - Particulate Nature of Matter ● Chapter 8 - Model of Matter, Atoms and Molecules ● Chapter 9 - Ray Model of Light
1NT	<ul style="list-style-type: none"> ● Chapter 1 - Exploring Forces ● Chapter 2- Discovering Energy ● Chapter 3- Investigating Heat ● Chapter 4 - Investigating Electricity ● Chapter 5- Properties of Matter

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2E	<ul style="list-style-type: none"> ● Chapter 10 - Transport in Living Things ● Chapter 11 - Human Digestive System ● Chapter 12 - Human Sexual Reproductive System ● Chapter 13 - Electrical Systems ● Chapter 14 - Interactions through the Application of Forces ● Chapter 15 - Energy and Work done ● Chapter 16 - Transfer of Sound Energy Through Vibrations ● Chapter 17 - Effects of Heat and Its Transmission ● Chapter 18 - Chemical Changes ● Chapter 19 - Interactions within Ecosystems 		
2NA	<ul style="list-style-type: none"> ● Chapter 10 - Transport in Living Things ● Chapter 11 - Human Digestive System ● Chapter 12 - Human Sexual Reproductive System ● Chapter 13 - Electrical Systems ● Chapter 14 - Interactions through the Application of Forces ● Chapter 15 - Energy and Work done ● Chapter 16 - Transfer of Sound Energy Through Vibrations ● Chapter 17 - Effects of Heat and Its Transmission ● Chapter 18 - Chemical Changes ● Chapter 19 - Interactions within Ecosystems 		
2NT	<ul style="list-style-type: none"> ● Chapter 5 - Properties of Matter ● Chapter 6 - Water, Solutions & Suspensions ● Chapter 9- Cells as the Basic Units of Life ● Chapter 10 - Getting Energy and Nutrients for Food ● Chapter 11- Human Reproduction ● Chapter 12 - Taking Good of My Body 		
3E (Pure)	<p>Chemistry</p> <ul style="list-style-type: none"> ● Experimental Techniques ● Purification Techniques ● Kinetic Particle Theory ● Elements, Compounds, Mixtures ● Atomic Structure ● Chemical Bonding ● Periodic Table ● Acids and Bases ● Preparation of Salts ● Chemical Calculations ● QA 	<p>Physics</p> <ul style="list-style-type: none"> ● Measurements ● Kinematics ● Forces ● Mass, Weight & Density ● Turning Effect of Forces ● Pressure ● Work, Energy & Power ● Kinetic Model of Matter ● Temperature ● Transfer of Thermal Energy ● Thermal Properties of Matter ● Light ● Waves 	<p>Biology</p> <ul style="list-style-type: none"> ● Cells ● Movement in substances ● Nutrients ● Enzymes ● Nutrition in Humans ● Transport in Humans ● Respiration ● Nutrition in Plants ● Transport in Plants ● Reproduction in Plants ● Reproduction in Humans
3E Combined Science	<p>Science (Chemistry)</p> <ul style="list-style-type: none"> ● Experimental Techniques ● Purification Techniques ● Kinetic Particle Theory ● Elements, 	<p>Science (Physics)</p> <ul style="list-style-type: none"> ● Measurements ● Kinematics ● Forces ● Mass, Weight & Density ● Turning Effect of Forces ● Pressure ● Work, Energy & Power 	<p>Science (Biology)</p> <ul style="list-style-type: none"> ● Cells ● Movement in substances ● Nutrients ● Enzymes ● Nutrition in Humans ● Transport in Humans

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	<ul style="list-style-type: none"> Compounds, Mixtures ● Atomic Structure ● Chemical Bonding ● Periodic Table ● Acids and Bases ● Preparation of Salts 	<ul style="list-style-type: none"> ● Kinetic Model of Matter ● Transfer of Thermal Energy ● Thermal Properties of Matter ● Light ● Waves 	<ul style="list-style-type: none"> ● Nutrition in Plants ● Transport in Plants ● Reproduction in Plants
3NA	<p>Science (Chemistry)</p> <ul style="list-style-type: none"> ● Experimental Techniques ● Purification Techniques ● Kinetic Particle Theory ● Elements, Compounds, Mixtures ● Atomic Structure ● Chemical Bonding ● Formulae and Equations ● Periodic Table ● Acids and Bases ● Preparation of Salts 	<p>Science (Physics)</p> <ul style="list-style-type: none"> ● Measurements ● Kinematics ● Forces ● Mass, Weight, Density ● Moments ● Pressure ● Work, Energy, Power ● Kinetic Model of Matter ● Transfer of Thermal Energy ● Thermal Properties of Matter 	<p>Science (Biology)</p> <ul style="list-style-type: none"> ● Cells ● Movement in substances ● Nutrients ● Enzymes ● Nutrition in Humans ● Transport in Humans ● Nutrition in Plants ● Transport in Plants
3NT	<ul style="list-style-type: none"> ● Chapter 1- Energy and its Uses ● Chapter 2- Energy Transfer through waves ● Chapter 3- Effects of Forces ● Chapter 4- Electricity ● Chapter 5- Sources of Electricity ● Chapter 6 - Source of Food ● Chapter 7 - Food Chemistry (part) 		

Junyuan Secondary School
2018 SA2 Topics

Subject: Principles of Accounts

Level/Stream	SA2 Topics
3E	<ul style="list-style-type: none">● Chapter 1 Introduction to Accounting● Chapter 2 Elements of the Financial Statements and the Accounting Equation● Chapter 3 The Concept of Double Entry● Chapter 4 Source Document and Journal● Chapter 5 Individual Trade Receivable and Trade Payable● Chapter 6 Trial Balance● Chapter 7 Financial Statements● Chapter 8.1 Cash Book● Chapter 8.2 Petty Cash Book● Chapter 9 Bank Reconciliation● Chapter 10 Prepayments and Accruals● Chapter 11 Allowance For Impairment Of Trade Receivables
3NA	<ul style="list-style-type: none">● Chapter 1 Introduction to Accounting● Chapter 2 Elements of the Financial Statements and the Accounting Equation● Chapter 3 The Concept of Double Entry● Chapter 4 Source Document and Journal● Chapter 5 Individual Trade Receivable and Trade Payable● Chapter 6 Trial Balance● Chapter 7 Financial Statements● Chapter 8.1 Cash Book● Chapter 8.2 Petty Cash Book● Chapter 9 Bank Reconciliation● Chapter 10 Prepayments and Accruals

Junyuan Secondary School
2018 SA2 Topics

Subject: Food & Consumer Education / Food & Nutrition

Level/Stream	SA2 Topics
1E	Not Applicable completed in Semester 1
1NA	Not Applicable completed in Semester 1
2E	Chapters: 1 (Food preparation and culinary skills), 2 (Food presentation), 3 (Evaluation of food), 4 (Food culture), 5 (Being an informed consumer), 6 (Smart shopping)
2NA	Chapters: 1 (Food preparation and culinary skills), 2 (Food presentation), 3 (Evaluation of food), 4 (Food culture), 5 (Being an informed consumer), 6 (Smart shopping)
3NA	Chapters: 3 (Different types of nutritional needs), 4 (Carbohydrates), 6 (Fats), 8 (Food Commodities - Meat and alternatives), 10 (Vitamins), 11 (Minerals), 12 (Water and dietary fibre), 13 (Food Commodities - Fruit and vegetables), 14 (Heat transfer and methods of cooking), 18 (Convenience food)

Junyuan Secondary School
2018 SA2 Topics

Subject: Art

Level/Stream	SA2 Topics
1E/NA	<ul style="list-style-type: none">● Elements of Art: Lines, Shapes, Colours, Form and Values● Components: MCQ and Application of Skills and Techniques● Medium tested: Pencils, ink and colour pencils
1NT	<ul style="list-style-type: none">● Elements of Art: Lines, Shapes, Colours, Form and Values● Components: MCQ and Application of Skills and Techniques● Medium tested: Pencils and colour pencils
2E/2NA	<ul style="list-style-type: none">● Mini Coursework Component: 4 pages of preparatory drawings (to be completed during Art curriculum time in term 4)● Final art piece to be created during the 2 hour art paper● Medium Tested: Pencils and colour pencils
2NT	<ul style="list-style-type: none">● Contour Drawing Technique● Creative design component● Medium Tested: Pencils and colour pencils
3E	<ul style="list-style-type: none">● Art paper 2 component: 5 pages of preparatory studies● Final art piece to be created during the 3 hour art paper● Pictorial Composition, 1 and 2 Point Perspective, Drawing and Painting Techniques
3NA	<ul style="list-style-type: none">● Art paper 2 component: 5 pages of preparatory studies● Final art piece to be created during the 3 hour art paper● Pictorial Composition, 1 and 2 Point Perspective, Drawing and Painting Techniques

Junyuan Secondary School
2018 SA2 Topics

Subject: Design & Technology

Level/Stream	SA2 Topics
1E	<ul style="list-style-type: none">● Safety● Sketching● Design Process● Ideation● Tools, Machines and Workshop Processes● Materials
1NA	<ul style="list-style-type: none">● Safety● Sketching● Design Process● Ideation● Tools, Machines and Workshop Processes● Materials
3E	<ul style="list-style-type: none">● Design● Structures● Mechanisms● Electronics
3NA	<ul style="list-style-type: none">● Design Process● Structures● Mechanisms● Electronics

Junyuan Secondary School
2018 SA2 Topics

Subject: Computing

Level/Stream	SA2 Topics
3E	<p><u>Paper 1 (Theory)</u></p> <ul style="list-style-type: none">● Computer Architecture (Chapter 1)● Problem Analysis (Chapter 2)● Algorithm Design (Chapter 3)● Program Development (Chapter 4) <p><u>Paper 2 (Practical)</u></p> <ul style="list-style-type: none">● Program Development (Chapter 4 & Chapter 5)

Junyuan Secondary School
2018 SA2 Topics

Subject: Computer Applications

Level/Stream	SA2 Topics
1NT	<p><u>Paper 1 (Theory)</u></p> <ul style="list-style-type: none">● Computer Fundamentals (CPF)● Media Elements (MEL)● Document Processing (DOP)● Spreadsheets (SST)● Multimedia Communication (MMC) <p><u>Paper 2 (Practical)</u></p> <ul style="list-style-type: none">● Media Elements (MEL)● Document Processing (DOP)● Spreadsheet (SST)
2NT	<p><u>Paper 1 (Theory)</u></p> <ul style="list-style-type: none">● Computer Fundamentals (CPF)● Media Elements (MEL)● Document Processing (DOP)● Spreadsheets (SST)● Multimedia Communication (MMC)● Media Computing (MEC) <p><u>Paper 2 (Practical)</u></p> <ul style="list-style-type: none">● Media Elements (MEL)● Document Processing (DOP)● Spreadsheet (SST)
3NT	<p><u>Paper 1 (Theory)</u></p> <ul style="list-style-type: none">● Computer Fundamentals (CPF)● Media Elements (MEL)● Document Processing (DOP)● Spreadsheets (SST)● Multimedia Communication (MMC)● Media Computing (MEC)● Algorithm <p><u>Paper 2 (Practical)</u></p> <ul style="list-style-type: none">● Media Elements (MEL)● Document Processing (DOP)● Multimedia Communication (MMC) <p><u>Paper 3 (Practical)</u></p> <ul style="list-style-type: none">● Spreadsheets (SST)● Media Computing (MEC)● Algorithm

Junyuan Secondary School
2018 SA2 Topics

Subject: Elements of Business Skills

Level/Stream	SA2 Topics
3NT	Chapter 1 - Chapter 6 <ul style="list-style-type: none">● Introduction to Business● Business in Selected Service Industries<ul style="list-style-type: none">○ The Travel and Tourism Industry○ The Hospitality Industry○ The Retail Industry● Introduction to Marketing● The Marketing Mix● Communication With The Customer● Customer Service