

**Yio Chu Kang Secondary School**  
**2019 End OF Year Examination**



Sec 3NA	<b>Subject: Physical Education</b>		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	<p>Exercise Physiology</p> <ul style="list-style-type: none"> <li>- Skeletal System</li> <li>- Muscular System</li> <li>- Circulatory System</li> <li>- Respiratory System</li> <li>- Training Principles and Methods</li> <li>- Nutrition</li> </ul> <p>Sports Psychology</p> <ul style="list-style-type: none"> <li>- Self- Efficacy</li> <li>- Motivation</li> <li>- Arousal &amp; Performance</li> <li>- Anxiety</li> <li>- Factors influencing exercise participation</li> </ul> <p>Motor Learning and Development</p> <ul style="list-style-type: none"> <li>- Skill classification</li> <li>- Factors affecting variations in skill level</li> <li>- Differences between skill of Novice and Expert performer</li> <li>- Information Processing Model</li> <li>- Different types of feedback and importance</li> <li>- BSER framework</li> <li>- Game-related concepts</li> </ul> <p>Biomechanics</p> <ul style="list-style-type: none"> <li>- Effects of the natural laws and forces</li> <li>- Biomechanical principles</li> <li>- The phases of performances</li> </ul> <p>Sports Sociology</p> <ul style="list-style-type: none"> <li>- Equity</li> <li>- Commercialisation (Sponsorship in sports and media)</li> <li>- Ethics (Drugs in sports, sportsmanship and gamemanship)</li> </ul>	<p><b>Paper 1 (2h)</b> Answer all the questions</p> <p><b>Section A</b> - MCQs, Matching, Drag and Drop, Checking of boxes and Fill in the blanks</p> <p><b>Section B</b> - Short answer and Structured questions based on texts and pictures</p> <p><b>Section C</b> - Case studies</p>	<p><b>Total: 80 marks (100%)</b></p> <p>Section A: 20 marks</p> <p>Section B: 40 marks</p> <p>Section C: 20 marks</p>

Sec 3NA	<b>Subject: English</b>		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	<p><b>Paper 1: Writing</b></p> <p>Editing</p> <p>Situational Writing</p> <p>Continuous Writing</p>	<p><b>Paper 1 (1 h 50 min)</b></p> <p>Section A</p> <p>Section B</p> <p>Section C (Choose 1 out of 4)</p>	<p><b>Total: 70 marks (35%)</b></p> <p>10 marks</p> <p>30 marks</p> <p>30 marks</p>
	<p><b>Paper 2: Comprehension</b></p> <p>Text 1: Visual Text</p> <p>Text 2: Narrative Text</p> <p>Text 3: Information Text</p>	<p><b>Paper 2 (1 h 50 min)</b></p> <p>Section A</p> <p>Section B</p> <p>Section C</p>	<p><b>Total: 50 marks (35%)</b></p> <p>5 marks</p> <p>20 marks</p> <p>25 marks</p>
	<p><b>Paper 3: Listening</b></p>	<p><b>Paper 3 (approximately 45 min)</b></p>	<p><b>30 marks (10%)</b></p>
	<p><b>Paper 4: Oral Communication</b></p> <p>Reading Aloud</p> <p>Spoken Interaction</p>	<p><b>Paper 4 (approximately 20 min)</b></p> <p>Part 1</p> <p>Part 2</p>	<p>Total: 30 marks (20%)</p> <p>10 marks</p> <p>20 marks</p> <p>(completed in Term 3 for use in SA 2)</p>

Sec 3NA	<b>Subject: E Mathematics</b>		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	<p>Chapter 1: Indices</p> <p>Chapter 2: Algebraic Manipulation</p> <p>Chapter 3: Quadratic Equations</p> <p>Chapter 4: Congruency &amp; Similarity</p> <p>Chapter 5: Coordinate Geometry</p> <p>Chapter 6: Trigo Ratios of Acute Angles</p> <p>Chapter 7: Sine Rule &amp; Cosine Rule</p> <p>Chapter 8: Graphs of Quadratic Functions</p>	<p><b>Paper 1 (2 h)</b> There will be about 23-25 short answer questions.</p> <p><b>Paper 2 (2 h)</b> Section A will contain 9-10 questions of varying lengths. The last question will focus specifically on applying mathematics to a real-world scenario. Section B will contain 2 questions required to answer one.</p>	<p>80 marks (50%)</p> <p>60 marks (50%)</p>

Sec 3NA	<b>Subject: Science (Chemistry)</b>		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	1. Kinetic Particle Theory 2. Measurement and Experimental Techniques 3. Separation and Purification 4. Elements, Compounds and Mixtures 5. Atomic Structure 6. Chemical Bonding 7. Writing Chemical Equations 8. The Mole 9. Acids and Bases	<b>Total Duration: 1 h 30 min</b> <b>Paper 3</b> 20 MCQ <b>Paper 4</b> Section A : Structured Qns Section B : Choose 2 out of 3 questions	<b>Total: 50 marks</b> Paper 3: 20 marks  Paper 4 Section A: 14 marks Section B: 16 marks

Sec 3NA	<b>Subject: Science (Physics)</b>		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	Textbook Ch 1. Measurement Ch 2. Kinematics Ch 3. Forces and Pressure Ch 4. Mass, Weight and Density Ch 5. Turning Effect of Forces Ch 6. Energy, Work and Power Ch 7. Kinetic Model of Matter Ch 8. Transfer of Thermal Energy Ch 9. Thermal Properties of Matter	<b>Total duration: 1h 15min</b> <b>Paper 1</b> 20 MCQ  <b>Paper 2</b> Section A: Structured questions Section B: Choose 2 out of 3 questions	<b>Total: 50 marks</b>  20 marks  14 marks 16 marks

Sec 3NA	<b>Subject: Science (Biology)</b>		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	1. Cell Structure and its Function 2. Movement of Substances 3. Biological Molecules (Nutrients and Enzymes) 4. Nutrition in Humans 5. Nutrition in Plants 6. Transport in Flowering Plants 7. Transport in Humans	<b>Total duration: 1h 15min</b> <b>Paper 1</b> 20 MCQ  <b>Paper 2</b> Section A: Structured questions Section B: Choose 2 out of 3 questions	<b>Total: 50 marks</b>  20 marks  14 marks 16 marks

Sec 3NA	<b>Subject: Art</b>		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	Not Applicable	<b>Paper 1</b> <b>Class Assignments in Semester 2</b>	<b>Total: 100 marks</b>
	Drawing and Painting via Form and Tonal Values.	<b>Paper 2 Drawing &amp; Painting (3 hr)</b> <b>1. Question paper is to be given three weeks before the Examination.</b> <b>2. Students are to respond to one of six themes issued on an A3 sized paper.</b> <b>3. Preparatory studies (Research, Sketches, Design Layout and Mock up of Final Work) of three to five A3 sheets of paper must be submitted together with the final work for assessment.</b>	<b>Total: 100 marks</b> <b>The five assessment domains are:</b> <b>1. Investigation and Interpretation of Theme (15 marks)</b> <b>2. Exploration and Development of Theme (15 marks)</b> <b>3. Aesthetic Qualities (25 marks)</b> <b>4. Control of Materials and Technical Processes (25 marks)</b> <b>5. Personal Response (20 marks)</b>

Sec 3NA	<b>Subject: Food and Nutrition</b>		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	Chapter 2: Guidelines for Meal Planning Chapter 3: Different Types of Nutritional Needs Chapter 4: Carbohydrate Chapter 6: Fats Chapter 7: Proteins Chapter 8: Food Commodities (Egg) Chapter 10: Vitamins Chapter 11: Minerals	<b>Paper 1 (1 h 30 min)</b> <b>Section A: Short Answer type questions.</b> <b>Section B: Data-response questions.</b> <b>Section C: Open-ended type questions.</b>	<b>Total: 80 marks</b> <b>Section A: 20 marks</b> <b>Section B: 28 marks</b> <b>Section C: 32 marks</b>
	Not Applicable.	<b>Paper 2</b> Coursework in Semester 2	<b>Total: 100 marks</b>

Sec 3NA	<b>Subject: Geography</b>		
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	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	Chapter 1: Living with Tectonic Hazards (Gateways 1 and 2) Chapter 2: Variable weather and changing climate (Gateways 1 and 2) Chapter 3: Geographical Skills & Investigations	Duration: 1 hr 40 min Section A: Geographical Investigation Section B: Structured Qns Section C: Structured Qns	<b>Total: 50 marks (50%)</b> Section A: 13 marks Section B: 12 marks Section C: 25 marks

Sec 3NA	<b>Subject: History</b>		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	Sec 3 Chapter 1: Impact of WWI Sec 3 Chapter 2: Stalin's Soviet Union Sec 3 Chapter 3: Hitler's Germany Sec 3 Chapter 4: Outbreak of World War II in Europe Sec 3 Chapter 5: Germany's Defeat	Duration: 1h 40 min Section A: Source-based Case Study Section B: Structured Essay Questions  Section B Choose 1 out of 2 questions	<b>Total: 50 marks (50%)</b> Section A: 30 marks Section B: 20 marks

Sec 3NA	<b>Subject: Social Studies</b>		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	Chapter 1: What does it mean for me to be a citizen of my country? Chapter 2: How do we decide what is good for society? Chapter 3: How can we work for the good of society? Chapter 4: What is Diversity? Chapter 5: Why is there greater diversity in Singapore now? skills tested: Simple inference, inference with purpose, Comparison, reliability, assertion	Duration: 1h 45 min Section A Source-based Question (5 sub-questions) Section B Structured Reponse Question (2 sub-questions)	<b>Total: 50 marks (50%)</b> Section A: 35 marks Section B: 15 marks

Sec 3NA	<b>Subject: MTL</b>		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
Chinese/ Malay/ Tamil	<b>Paper 1 - Writing</b> Email (Informal/Formal), Descriptive, Narrative, Expository	<b>Paper 1 (2 h)</b> Section A (Choose 1 question) Section B (choose 1 question)	<b>Total: 60 marks (30%)</b> 20 marks 40 marks
Chinese	<b>Paper 2 - Language &amp; Comprehension</b> Grammar / Cloze Passage Objective Comprehension Subjective Comprehension	<b>Paper 2 (1 h 30 min)</b> Section A - FIB / MCQ Section B - MCQ Section C - OE	<b>Total: 60 marks (30%)</b> 22 marks 12 marks 26 marks
Malay/ Tamil	<b>Paper 2 - Language &amp; Comprehension</b> Grammar / Cloze Passage Comprehension - Graphic Stimulus Subjective Comprehension	<b>Paper 2 (1 h 30 min)</b> Section A - FIB Section B - MCQ Section C - OE	<b>Total: 60 marks (30%)</b> 20 marks 10 marks 30 marks
Chinese/ Malay/ Tamil	<b>Paper 3 - Oral</b> Reading Aloud Interactive Conversation (video)	<b>Paper 2 (approximately 20 min)</b> Section A Section B	<b>Total: 50 marks (30%)</b> 10 marks 40 marks
	<b>Paper 3 - Listening Comprehension</b> 10 questions	<b>Paper 3 (30 min)</b> MCQ	<b>Total: 20 marks (10%)</b>
Chinese B	<b>Paper 1 - Writing</b> Email or Picture Composition	<b>Paper 1 (50 min) - Computer-Based</b> Choose 1 question	<b>Total: 20 marks (20%)</b>
	<b>Paper 2 - Language &amp; Comprehension</b> Grammar Comprehension - Graphic Stimulus Objective Comprehension	<b>Paper 2 (1 h) - MCQ</b> Section A Section B Section C	<b>Total: 30 marks (30%)</b> 10 marks 10 marks 10 marks
	<b>Paper 3 - Oral</b> Reading Interactive Conversation (video)	<b>Paper 3 (15 min)</b> Section A Section B	<b>Total: 30 marks (30%)</b> 10 marks 20 marks
	<b>Paper 3 - Listening Comprehension</b> 10 questions	<b>Paper 3 (30 min)</b> MCQ	<b>Total: 20 marks (20%)</b>

Sec 3NA	<b>Subject: POA</b>		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)

	Chapter 1: Introduction to Accounting Chapter 2: The Accounting Information System Chapter 3: Elements of the Financial Statements and the Accounting Equation. Chapter 4: The Concept of Double Entry Chapter 5: Special Journals Chapter 6: Cash Book & Petty Cash Book Chapter 7: Bank Reconciliation Chapter 8: Trial Balance Chapter 9: Income Statement Chapter 10: Balance Sheet Chapter 11: Prepayment and Accruals Chapter 12: Inventory	<b>Paper 1 (1hr)</b> 4 questions. Answer ALL questions  <b>Paper 2 (2hrs)</b> 4 questions. Answer ALL questions	<b>Total: 40 marks (40%)</b> <b>Total: 60 marks (60%)</b>
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<b>Sec 3NA</b>	<b>Subject: Additional Mathematics</b>		
	<b>Topic tested in EOY Exam</b>	<b>Format of Paper</b>	<b>Marks (Weightings)</b>
	Chapter 1: Equations and Inequalities Chapter 2: Surds and Indices (except 2.4) Chapter 3: Polynomials And Partial Fractions (except 3.6) Chapter 5: Binomial Theorem Chapter 6: Points, Lines and Shapes Chapter 9: Parabolas and circles	<b>Paper 1 (1 hr 45 min)</b> Answer ALL questions Paper 2 (1 hr 45 min) Answer ALL questions	<b>Total: 70 marks ( 50%)</b> <b>Total: 70 marks (50%)</b>