

Yio Chu Kang Secondary School
2018 End OF Year Examination



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

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

| Sec 3E | Subject: Mathematics | | |
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| Topic tested in EOY Exam | Format of Paper | Marks (Weightings) | |
| <p>Chapter 1 Indices</p> <p>Chapter 2 More about Quadratic Equations</p> <p>Chapter 3 Linear Inequalities</p> <p>Chapter 4 Congruence and Similarity</p> <p>Chapter 5 Coordinate Geometry Chapter</p> <p>Chapter 6 Functions and Graphs</p> <p>Chapter 7 Further Trigonometry</p> <p>Chapter 8 Applications of Trigonometry</p> <p>Ten Years Series Unit 1: Numbers and Algebra</p> <ul style="list-style-type: none"> - 1.5 Algebraic Expressions and Formulae (Number Pattern and General Formula) - 1.10 Problems In Real World Context - 2.5 Mensuration | <p>Paper 1 (2 h)</p> <p>Paper 2 (2 h 30 min)</p> | <p>Total: 80 marks (50%)</p> <p>Total: 100 marks (50%)</p> | |

| Sec 3E | Subject: Biology | | |
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| Topic tested in EOY Exam | Format of Paper | Marks (Weightings) | |
| <ol style="list-style-type: none"> 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 8. Respiration in Humans | <p>Paper 1 (45 min)</p> <p>30 MCQ</p> <p>Paper 2 (1 h 30 min)</p> <p>Section A</p> <p>Section B (1 compulsory question and 1 either/or question)</p> | <p>Total: 30 marks (30%)</p> <p>30 marks</p> <p>Total: 70 marks (70%)</p> <p>50 marks</p> <p>20 marks</p> | |

| Sec 3E | Subject: Chemistry | | |
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| | 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. Ionic bonding 7. Covalent and Metallic Bonding 8. Writing Chemical Equations 9. The Moles 10. Chemical Calculations 11. Acids and Bases 12. Salts 13. The Periodic Table | Paper 1 (45 min) 30 MCQ Paper 2 (1 h 30 min) Section A Section B (1 compulsory question and 1 either/or question) | Total: 30 marks (30%) 30 marks Total: 70 marks (70%) 50 marks 20 marks |

| Sec 3E | Subject: Physics | | |
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| | Topic tested in EOY Exam | Format of Paper | Marks (Weightings) |
| | Textbook Chapter 01 Measurement Chapter 02 Kinematics Chapter 03 Forces Chapter 04 Mass, Weight and Density Chapter 05 Turning Effect of Forces Chapter 06 Energy, Work and Power Chapter 07 Pressure Chapter 08 Temperature Chapter 09 Kinetic Model of Matter Chapter 10 Transfer of Thermal Energy Chapter 11 Thermal Properties of Matter | Paper 1 (45 min) 30 MCQ Paper 2 (1h 30 min) Section A Section B (1 compulsory question and 1 either/or question) | Total: 30 marks (30%) 30 marks Total: 70 marks (70%) 50 marks 20 marks |

| Sec 3E | Subject: Science (Physics) | | |
|--------|---|---|--|
| | 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 | Paper 1 (30 min) 20 MCQ Paper 2 (1 h 15 min) Section A: Structured Qns Section B: Choose 2 out of 3 questions | Total: 20 marks (13.75%) Total: 65 marks (36.25%) 45 marks 20 marks |

| Sec 3E | Subject: Science (Chemistry) | | |
|--------|---|---|--|
| | 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. Ionic and Covalent bonding 7. Writing Chemical Equations 8. The Mole 9. Chemical Calculations 10. Acids and Bases 11. Salts | Paper 1 (30 min) 20 MCQ Paper 3 (1 h 15 min) Section A: Structured Qns Section B: Choose 2 out of 3 questions | Total: 20 marks (13.75%) Total: 65 marks (36.25%) 45 marks 20 marks |

| Sec 3E | Subject: Science (Biology) | | |
|--------|--|---|--|
| | 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 8. Respiration in Humans | Paper 1 (30 min) 20 MCQ Paper 4 (1 h 15 min) Section A: Structured Qns Section B: Choose 2 out of 3 questions | Total: 20 marks (13.75%) Total: 65 marks (36.25%) 45 marks 20 marks |

| Sec 3E | Subject: MTL | | |
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| | Topic tested in EOY Exam | Format of Paper | Marks (Weightings) |
| Chinese/ Malay/ Tamil | Paper 1 - Writing Email (Informal/Formal), Descriptive, Narrative, Expository | Paper 1 (2 h) Section A (Choose 1 question) Section B (choose 1 question) | Total: 60 marks (30%) 20 marks 40 marks |
| Chinese | Paper 2 - Language & Comprehension Grammar / Cloze Passage Objective Comprehension - Multi Choice Subjective Comprehension | Paper 2 (1 h 30 min) Section A: FIB / MCQ Section B: MCQ Section C: OE | Total: 70 marks (35%) 24 marks 16 marks 30 marks |

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| Malay/ Tamil | Paper 2 - Language & Comprehension Grammar / Cloze Passage Comprehension - Graphic Stimulus Subjective Comprehension | Paper 2 (1 h 30 min) Section A: FIB Section B: MCQ Section C: OE | Total: 70 marks (35%) 30 marks 10 marks 30 marks |
| Chinese/ Malay/ Tamil | Paper 3 - Oral Reading Aloud Interactive Conversation (video) | Paper 2 (15 min) Section A Section B | Total: 50 marks (25%) 10 marks 40 marks |
| | Paper 3 - Listening Comprehension 10 questions | Paper 3 (30 min) MCQ | Total: 20 marks (10%) |
| Chinese B | Paper 1 - Writing Email or Picture Composition | Paper 1 (50 min) - Computer-based Choose 1 question | Total: 20 marks (20%) |
| | Paper 2 - Language & Comprehension Grammar Comprehension - Graphic Stimulus Objective Comprehension | Paper 2 (1 h) - MCQ Section A Section B Section C | Total: 30 marks (30%) 10 marks 10 marks 10 marks |
| | Paper 3 - Oral Reading Interactive Conversation (video) | Paper 3 (15 min) Section A Section B | Total: 30 marks (30%) 10 marks 20 marks |
| | Paper 3 - Listening Comprehension 10 questions | Paper 3 (30 min) MCQ | Total: 20 marks (20%) |

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| Sec 3E | Subject: Additional Mathematics | | |
| | Topic tested in EOY Exam | Format of Paper | Marks (Weightings) |
| | Cppt 1 Equations and Inequalities Cppt 2 Surds and Indices Cppt 3 Polynomials and Partial Fractions Cppt 4 Modulus & Power Functions Cppt 6 Points, Lines & Shapes Cppt 7 Logarithms Cppt 9 Parabolas & Circles | Paper 1(2 h) Answer all Questions (There will be 11 – 13 questions of varying marks and lengths.) Paper 2(2 h) Answer all Questions (There will be 9 - 11 questions of varying marks and lengths) | 80 marks (50%) 80 marks (50%) |

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| Sec 3E | Subject: Art | | |
| | Topic tested in EOY Exam | Format of Paper | Marks (Weightings) |
| | Not Applicable | Paper 1 (Class Assignments in Semester 2) | Total: 100 marks (60%) |
| | Paper 2 Drawing and Painting | Paper 2 Drawing & Painting (3 h) 1. Question paper is to be given three weeks before the Examination. 2. Students are to respond to one of six themes issued on an A3 sized paper. 3. Preparatory studies (Research, Sketches, Design Layout, Mock up of final work) of three to five A3 sized sheets of paper must be submitted together with the final work for assessment. | Total: 100 marks (40%) 1. Investigation and Interpretation of Theme (20%) 2. Exploration and Development of Theme (20%) 3. Aesthetic Qualities (20%) 4. Control of Materials & Technical Processes (20%) 5. Personal Response (20%) |

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| Sec 3E | Subject: Design and Technology | | |
| | Topic tested in EOY Exam | Format of Paper | Marks (Weightings) |
| | Chapter 2: Design Method Chapter 4: Research Chapter 5: Definition of Needs Chapter 6: Generating and Developing Ideas Chapter 7: Realisation Plan Chapter 8: Evaluation Chapter 9: Design Communication Chapter 10: Ergonomics and Anthropometry Chapter 12: Structures Chapter 13: Mechanisms Chapter 14: Electronics | Paper 1 (2 h) Part A: Answer all questions set based mainly on design process and design contents. Part B: Answer three questions set based mainly on the three technological areas, namely Structures, Mechanisms and Electronics. | Total: 100 marks (30%) Part A: 40 marks Part B: 60 marks |
| | Not Applicable. | Paper 2 (Coursework in Semester 2) Design Project | 100 marks (70%) |

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| Sec 3E | Subject: Food and Nutrition | | |
| | Topic tested in EOY Exam | Format of Paper | Marks (Weightings) |
| | Chapter 2: Guidelines for Meal Planning (Nutritional Tools) Chapter 3: Different Types of Nutritional Needs Chapter 6: Fats Chapter 7: Proteins Chapter 8: Food Commodities (Meat, Seafood, Milk, Legumes & Pulses) Chapter 10: Vitamins Chapter 11: Minerals Chapter 14: Heat Transfer & Methods of Cooking Chapter 15: Science in Food Preparation (Batter Making, Sauce Making) Chapter 18: Convenience Food | Paper 1 (2 h) Section A: Short Answer type questions. Section B: Structured type questions. Section C: Open-ended type questions. | Total: 100 marks (40%) Section A: 25 marks Section B: 30 marks Section C: 45 marks |

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| | Not Applicable. | Paper 2 Coursework in Semester 2 | 100 marks (60%) |
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| Sec 3E | Subject: Geography | | |
| | Topic tested in EOY Exam | Format of Paper | Marks (Weightings) |
| | Chapter 1: Living with Tectonic Hazards (Gateway 1, 2 & 3) Chapter 2: Variable weather & Changing Climate (Gateway 1 & 2) Chapter 3: Geographical Skills & Investigations | Duration: 1 h 40 min Section A: Geographical Investigation Section B: Structured Qns on Weather & Climate Section C : Structured Qns on Plate Tectonics | Total: 50 marks (50%) Section A: 13 marks Section B: 12 marks Section C: 25 marks |

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| Sec 3E | Subject: History | | |
| | Topic tested in EOY Exam | Format of Paper | Marks (Weightings) |
| | 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: 1 h 40 min Section A: Source-based Case Study Section B: Structured Essay Questions (Choose 1 out of 2 questions) | Total: 50 marks (50%) Section A: 30 marks Section B: 20 marks |

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| Sec 3E | Subject: Social Studies | | |
| | Topic tested in EOY Exam | Format of Paper | Marks (Weightings) |
| | Chapter 4: What is Diversity? Chapter 5: Why is there greater diversity in Singapore now? Chapter 6: What are the experiences and effects of living in a diverse society? 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 Response Question (2 sub-questions) | Total: 50 marks (50%) Section A: 35 marks Section B: 15 marks |