

**BUKIT PANJANG GOVT HIGH SCHOOL**  
**Topics covered for End of Year Examination 2020**  
**Secondary 3 Express**

<b>Subject</b>	<b>Duration</b>	<b>Topics Covered</b>
English Language	1h 50m (P1) 1h 50m (P2) 45m (P3)	Editing, Situational Writing & Continuous Writing Comprehension (includes Summary Question) Listening Comprehension
Chinese Language	2h (P1) 1h 30m (P2) 1h (P3)	试卷一：实用文（私人电邮、公务电邮）、作文 试卷二：综合填空、阅读理解一、阅读理解二 试卷三：听力
Higher Chinese Language	2h (P1) 1h 45m (P2)	试卷一：私人电邮和公务电邮、作文 试卷二：语文应用（短文填充、病句改正）、阅读理解一、阅读理解二、片段缩写
Higher Malay Language	2h (P1) 1h 45m (P2)	P1(80m):-Bhg A (20m): E-Mail Tidak Rasmi, Forum, Bhg B (60m): Karangan Deskriptif, Perbincangan & Naratif P2(80m):-Melengkapkan Teks, Mengedit Teks, Peribahasa, Kefahaman Subjektif, Kefahaman Objektif & Peringkasan
E Math	1 h 30m (P1) 1 h 30m (P2)	Subject content within the Sec 1-3 Mathematics Textbook.  Excludes Sec 3 Chapter 11 Geometrical properties of circles  Paper 1: short-answer questions. Paper 2: questions of varying marks and lengths. The last question will focus on apply mathematics to a real-world scenario.
A Math	2 h 30 m	Subject content within the Textbook from Chapter 1 - 7 and Chapter 9

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Subject	Duration	Topics Covered
Physics	45m (P1) 1h 30m (P2) 1h (P3)	<p><u>P1 and P2 (Theory):</u></p> <ol style="list-style-type: none"> <li>1. Physical Quantity, Units and Measurement</li> <li>2. Kinematics</li> <li>3. Dynamics (Forces)</li> <li>4. Mass, Weight and Density</li> <li>5. Turning Effect of Forces</li> <li>6. Pressure</li> <li>7. Energy, Work and Power</li> <li>8. Kinetic Model of Matter</li> <li>9. Transfer of Thermal Energy</li> <li>10. Temperature</li> <li>11. Thermal Properties of Matter</li> <li>12. Light</li> </ol> <p><u>P3 (Practical):</u></p> <ul style="list-style-type: none"> <li>● Manipulation, measurement and observation (MMO)</li> <li>● Presentation of data and observations (PDO)</li> <li>● Analysis, conclusions and evaluation (ACE)</li> </ul>

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Subject	Duration	Topics Covered
Chemistry	45m (P1) 1h 30m (P2) 1h (P3)	<p><u>P1 and P2 (Theory):</u></p> <ol style="list-style-type: none"> <li>1. Experimental Chemistry (Experimental Design, Methods of Purification and Analysis, Identification of Ions and Gases)</li> <li>2. The Particulate Nature of Matter (Kinetic Particle Theory, Atomic Structure, Structure and Properties of Materials, Ionic Bonding, Covalent Bonding, Metallic Bonding)</li> <li>3. Formulae, Stoichiometry and the Mole Concept</li> <li>4. Acids, Bases and Salts (Acids and bases, Salts)</li> <li>5. The Periodic Table (Periodic trends, Group properties, Transition elements)</li> <li>6. Metals (Properties of metals, Reactivity series, Extraction of metals, Recycling of metals, Iron)</li> <li>7. Air</li> </ol> <p><u>P3 (Practical):</u></p> <ul style="list-style-type: none"> <li>● Planning (P)</li> <li>● Manipulation, measurement and observation (MMO)</li> <li>● Presentation of data and observations (PDO)</li> <li>● Analysis, conclusions and evaluation (ACE)</li> </ul>

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Subject	Duration	Topics Covered
Biology	45m (P1) 1h 30m (P2) 1h (P3)	<p><u>P1 and P2 (Theory):</u></p> <ol style="list-style-type: none"> <li>1. Cells</li> <li>2. Molecular Genetics</li> <li>3. Movement of Substances</li> <li>4. Nutrients</li> <li>5. Enzymes</li> <li>6. Nutrition in Man</li> <li>7. Transport in Man</li> <li>8. Nutrition in Plants</li> <li>9. Transport in Plants</li> <li>10. Respiration in Humans</li> </ol> <p><u>P3 (Practical):</u></p> <ul style="list-style-type: none"> <li>● Planning (P)</li> <li>● Manipulation, measurement and observation (MMO)</li> <li>● Presentation of data and observations (PDO)</li> <li>● Analysis, conclusions and evaluation (ACE)</li> </ul>

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Subject	Duration	Topics Covered
Science 'O' (P, C)	1h (P1) 1h 15m (P2) 1h 15m (P3) 1h 30m (P5)	<p><u>Physics</u></p> <ol style="list-style-type: none"> <li>1. Physical Quantity, Units and Measurement</li> <li>2. Kinematics</li> <li>3. Dynamics (Forces)</li> <li>4. Mass, Weight and Density</li> <li>5. Turning Effect of Forces</li> <li>6. Pressure</li> <li>7. Energy, Work and Power</li> <li>8. Kinetic Model of Matter</li> <li>9. Transfer of Thermal Energy</li> <li>10. Thermal Properties of Matter</li> <li>11. Light</li> </ol> <p><u>Chemistry</u></p> <ol style="list-style-type: none"> <li>1. Experimental Chemistry (Experimental Design, Methods of Purification and Analysis, Identification of Ions and Gases)</li> <li>2. The Particulate Nature of Matter (Kinetic Particle Theory, Atomic Structure, Structure and Properties of Materials, Ionic Bonding, Covalent Bonding, Metallic Bonding)</li> <li>3. Formulae, Stoichiometry and the Mole Concept</li> <li>4. Acids, Bases and Salts (Acids and bases, Salts)</li> <li>5. The Periodic Table (Periodic trends, Group properties, Transition elements)</li> <li>6. Metals (Properties of metals, Reactivity series, Extraction of metals, Recycling of metals, Iron)</li> <li>7. Air</li> </ol>

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<b>Subject</b>	<b>Duration</b>	<b>Topics Covered</b>
English Literature (Full)	1h 40m	Fahrenheit 451 (Parts 1, 2 & 3) + Unseen Poetry
English Literature (Elective)	1h 40m	Fahrenheit 451 (Parts 1 & 2) + Unseen Poetry
Geography	1h 40m (P1) 1h 30m (P2)	Coasts: Gateway 1 - 3, Geographical Investigation  Plate Tectonics: Gateway 1 - 3 Weather and Climate: Gateway 1 - 2
Geography (Elective)	1h 40m	Plate Tectonics: Gateway 1 - 3 Weather and Climate: Gateway 1-2, Geographical Investigation
History (Elective)	1h 30m	<u>Source-Based Skills (either chpt 2: Stalin or chapter 3: Hitler)</u> Inference (What? Message? Why? Attitude?) Compare & Contrast (including Agree & Disagree) Reliability Usefulness  <u>Structured Essay Questions</u> Part (a) and Part (b) (including analysis of factors)  <u>Content for SEQ</u> Textbook Unit 2: The World in Crisis Chapters 1 - 5

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<b>Subject</b>	<b>Duration</b>	<b>Topics Covered</b>
Social Studies	1h 30m	<u>Source-Based Skills</u> Inference (What? Message? Why?) Compare & Contrast Reliability  <u>Structured Response Questions</u> (Q6) Issue 2 (chapters 4-6) (Q7) Issue 2 (chapters 4-6)
Malay Literature (Elective)	1 h 40 m (P2)	Prosa Moden (25m): Sambal Goreng Mak, Kudrat, Nyanyuk. Sajak: Tidak Senang Dengan Duduk-duduk & Kepada Pohon Tak Bernama Teks Bebas (25m): Prosa Moden & Sajak
Chinese Literature (Elective)	1h 40 m (P2)	A组 : 指定文本选读 ( 现当代小说 )  B组 : 文学作品赏析 ( 非指定文本 )

**BUKIT PANJANG GOVT HIGH SCHOOL**  
**Topics covered for End of Year Examination 2020**  
**Secondary 3 Normal (Acad)**

<b>Subject</b>	<b>Duration</b>	<b>Topics Covered</b>
English Language (Exp)	1h 50m (P1) 1h 50m (P2) 45m (P3)	Editing, Situational Writing & Continuous Writing Comprehension (includes Summary Question) Listening Comprehension
Chinese Language (EXP)	2h (P1) 1h 30m (P2) 1h (P3)	试卷一：实用文（私人电邮、公务电邮）、作文 试卷二：综合填空；阅读理解一、阅读理解二 试卷三：听力
Chinese Language (NA)	2h (P1) 1h 30m (P2) 1h (P3)	试卷一：实用文（私人电邮、公务电邮）、作文 试卷二：综合填空；阅读理解一、阅读理解二 试卷三：听力
Malay Language (EXP)	2h (P1) 1h 30m (P2) 1h (P3)	P1(60m):-Bhg A (20m):E-Mel Tidak Rasmi, E-Mel Rasmi, Bhg B (40m): Karangan Deskriptif, Perbincangan & Naratif P2(70m):- Imbuan, Peribahasa, Melengkapkan Teks, Kefahaman Objektif & Kefahaman Subjektif. P3 (20m):- Kefahaman Mendengar (MCQ)
Malay Language (NA)	2h (P1) 1h 30m (P2) 1h (P3)	P1(60m):-Bhg A (20m):E-Mel Tidak Rasmi, E-Mel Rasmi, Bhg B (40m): Karangan Deskriptif, Perbincangan & Naratif P2(60m):- Imbuan, Peribahasa, Melengkapkan Teks, Kefahaman Objektif & Kefahaman Subjektif. P3 (20m):- Kefahaman Mendengar (MCQ)
Chinese Language 'B'	50min (P1) 1h (P2) 40min (P3)	试卷一：实用文、看图作文 试卷二：综合填空、阅读理解一、阅读理解二 试卷三：听力



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**Topics covered for End of Year Examination 2020**  
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<b>Subject</b>	<b>Duration</b>	<b>Topics Covered</b>
Malay Language 'B'	50min (P1) 1h (P2) 40min (P3)	P1(20m) :- E-Mel Tidak Rasmi & Karangan Bergambar (Pilih 1) P2(30m):- Melengkapkan Teks (MCQ) & Pemahaman Objektif (MCQ) P3(20m): Kefahaman Mendengar (MCQ)
E Math (Exp)	1h 30 m (P1) 1h 30 m (P2)	Subject content within the Sec 1-3 Mathematics Textbook. Excludes Sec 3 Chapter 11 Geometrical properties circles  Paper 1: short-answer questions. Paper 2: questions of varying marks and lengths. The last question will focus on apply mathematics to a real-world scenario.
E Math (NA)	1h 30m(P1) 1h 30m(P2)	Subject content within the Sec 1-3 Mathematics Textbook Except Sec 3 Chapter 8 Congruence and Similarity.  Paper 1: short-answer questions. Paper 2: questions of varying marks and lengths. The last question will focus on apply mathematics to a real-world scenario.
A Math	1 h 45 m	Subject content within the Sec 3 A.Mathematics Textbook Chapter 1-4, 9-10.5

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**Topics covered for End of Year Examination 2020**  
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Subject	Duration	Topics Covered
Science 'N' (Physics)	1h 15m	<ol style="list-style-type: none"> <li>1. Measurement</li> <li>2. Kinematics</li> <li>3. Dynamics (Forces)</li> <li>4. Mass, Weight and Density</li> <li>5. Pressure</li> <li>6. Turning Effect of Forces</li> <li>7. Energy, Work and Power</li> <li>8. Kinetic Model of Matter</li> <li>9. Transfer of Thermal Energy</li> <li>10. Thermal Properties of Matter</li> </ol>
Science 'N'(Chemistry)	1h 15m	<ol style="list-style-type: none"> <li>1. Experimental Chemistry (Experimental Design, Methods of Purification and Analysis, Identification of Gases)</li> <li>2. The Particulate Nature of Matter (Kinetic Particle Theory, Atomic Structure, Structure and Properties of Materials, Ionic Bonding and Covalent Bonding)</li> <li>3. Chemical Formulae</li> <li>4. Acids, Bases and Salt (Acids and Bases, Salts)</li> </ol>
Science 'N' (Biology)	1h 15m	<ol style="list-style-type: none"> <li>1. Cell structure and organization</li> <li>2. Movement of substances</li> <li>3. Nutrients</li> <li>4. Enzymes</li> <li>5. Nutrition in Humans</li> </ol>

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**Topics covered for End of Year Examination 2020**  
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Subject	Duration	Topics Covered
Science 'O' (P,C) O Level	1h (P1) 1h 15m (P2) 1h 15m (P3) 1h 30m (P5)	<p><u>Physics</u></p> <ol style="list-style-type: none"> <li>1. Physical Quantity, Units and Measurement</li> <li>2. Kinematics</li> <li>3. Dynamics (Forces)</li> <li>4. Mass, Weight and Density</li> <li>5. Turning Effect of Forces</li> <li>6. Pressure</li> <li>7. Energy, Work and Power</li> <li>8. Kinetic Model of Matter</li> <li>9. Transfer of Thermal Energy</li> <li>10. Thermal Properties of Matter</li> <li>11. Light</li> </ol> <p><u>Chemistry</u></p> <ol style="list-style-type: none"> <li>1. Experimental Chemistry (Experimental Design, Methods of Purification and Analysis, Identification of Ions and Gases)</li> <li>2. The Particulate Nature of Matter (Kinetic Particle Theory, Atomic Structure, Structure and Properties of Materials, Ionic Bonding, Covalent Bonding, Metallic Bonding)</li> <li>3. Formulae, Stoichiometry and the Mole Concept</li> <li>4. Acids, Bases and Salts (Acids and bases, Salts)</li> <li>5. The Periodic Table (Periodic trends, Group properties, Transition elements)</li> <li>6. Metals (Properties of metals, Reactivity series, Extraction of metals, Recycling of metals, Iron)</li> <li>7. Air</li> </ol>

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<b>Subject</b>	<b>Duration</b>	<b>Topics Covered</b>
English Literature (Elective)	1h 40m	Code Name Verity (Part 1) + Unseen Poetry
Geography (Elective)	1h 40m	Plate Tectonics: Gateway 1 - 2 Weather and Climate: Geographical Investigation, Gateway 1 - 2
History (Elective)	1h 30m	<u>Source-Based Skills (either chpt 2: Stalin or chapter 3: Hitler)</u> Inference (What? Message? Why? Is the author a supporter?) Compare & Contrast (including Agree & Disagree) Reliability Utility  <u>Structured Essay Questions (SEQ)</u> Part (a) and Part (b)  <u>Content for SEQ</u> Textbook Unit 2: The World in Crisis Chapters 2 - 5
Social Studies	1h 30m	<u>Source-Based Skills</u> Inference (What? Message? Why?) Compare & Contrast Reliability  <u>Structured Response Questions</u> (Q6) Issue 2 (chapters 4-6) (Q7) Issue 2 (chapters 4-6)
Principles of Accounts	2h	Chapters 1-5, 8-9, 11
Design and Technology	1h 30 m	1. Design process 2. Mechanism

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<b>Subject</b>	<b>Duration</b>	<b>Topics Covered</b>
Food & Nutrition	1h 30 m	<ol style="list-style-type: none"><li>1. Fats</li><li>2. Vitamins</li><li>3. Minerals</li><li>4. Diet &amp; Health</li><li>5. Meal planning</li><li>6. Food Commodities (Fruits, vegetables, poultry, cheese &amp; eggs)</li><li>7. Convenience Food</li><li>8. Food reaction in cooking</li><li>9. Pastry</li></ol>

**BUKIT PANJANG GOVT HIGH SCHOOL**  
**Topics covered for End of Year Examination 2020**  
**Secondary 3 Normal (Tech)**

<b>Subject</b>	<b>Duration</b>	<b>Topics Covered</b>
English Language (NT)	1h 15m (P1) 1h 20m (P2) 45m (P3)	Form Filling, Functional Writing & Guided Writing Language Use & Comprehension Listening Comprehension
English Language (NA)	1h 50 m (P1) 1h 50 m (P2) 45 m (P3)	Editing, Situational Writing & Continuous Writing Comprehension (includes Summary Question) Listening Comprehension
Basic Chinese Language	50m (P1) 1h (P2)	试卷一：选词填空、错字辨析、短文填充、综合填空、阅读理解一、阅读理解二 试卷二：听力
Chinese Language (NA)	2h (P1) 1h 30m (P2) 1h (P3)	试卷一：实用文（私人电邮、公务电邮）、作文 试卷二：综合填空；阅读理解一、阅读理解二 试卷三：听力
Basic Malay Language	50m (P1) 1h (P2)	P1 (30m) :- Melengkapkan Teks (MCQ), Kefahaman Objektif (MCQ) & Penulisan SMS/E-Mel Tidak Rasmi P2(20m):- Kefahaman Mendengar (MCQ)
Malay Language (NA)	2h (P1) 1h 30m (P2) 1h (P3)	P1(60m):-Bhg A (20m):E-Mel Tidak Rasmi, E-Mel Rasmi, Bhg B (40m): Karangan Deskriptif, Perbincangan & Naratif P2(60m):- Imbuhan, Peribahasa, Melengkapkan Teks, Kefahaman Objektif & Kefahaman Subjektif. P3 (20m):- Kefahaman Mendengar (MCQ)

**BUKIT PANJANG GOVT HIGH SCHOOL**  
**Topics covered for End of Year Examination 2020**  
**Secondary 3 Normal (Tech)**

<b>Subject</b>	<b>Duration</b>	<b>Topics Covered</b>
Malay Language (EXP)	2h (P1) 1h 30m (P2) 1h (P3)	P1(60m):-Bhg A (20m):E-Mel Tidak Rasmi, E-Mel Rasmi, Bhg B (40m): Karangan Deskriptif, Perbincangan & Naratif P2(70m):- Imbuhan, Peribahasa, Melengkapkan Teks, Kefahaman Objektif & Kefahaman Subjektif. P3 (20m):- Kefahaman Mendengar (MCQ)
Mathematics (NT)	1h 30m (P1) 1h 30m (P2)	Subject content within the Sec 1-3 Mathematics Textbook Except Sec 3 Chapter 6.1 Patterns and Designs
Mathematics (NA)	1h 30 m (P1) 1h 30 m (P2)	Subject content within the Sec 1-3 Mathematics Textbook Except Sec 3 Chapter 8 Congruence and Similarity.  Paper 1: short-answer questions. Paper 2: questions of varying marks and lengths. The last question will focus on apply mathematics to a real-world scenario.
Science (NT)	1h (P1) 1h15m (P2)	<u>Module 4</u> 1. Energy and Its Uses 2. Energy Transfer Through Waves 3. Effects of Forces 4. Electricity 5. Sources of Electricity <u>Module 5</u> 6. Sources of Food 7. Food Chemistry
Elements of Business Skills	1h 30m	Chapters 1 to 4 Excludes part of Chapter 2 on convenience stores

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Design and Technology	1h	1) Design communications 2) Mechanism 3) Electronics
Food Studies	1h 30m	1. Balanced diet - nutrients: Fat/dietary fibre/protein 2. Reasons for cooking food 3. Food safety 4. Meat & poultry 5. Cereals and cereals products 6. Eggs 7. Vegetables 8. Fruits 9. Convenience food 10. Fats and oil
CPA Theory CPA Practical	1h (P1) 1h 30m (P2)	Computer Fundamentals Media Elements Document Processing Spreadsheet Multimedia Communication Media Computing  Excludes PS8 3D drawing