

Form 4

| Subject | Supplementary Test (Ib) Syllabuses |
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| I.C.T. | <p>Introduction to information processing</p> <p>Information age</p> <p>Input-process-output cycle</p> <p>Input devices and output devices and their functions</p> <p>Data type</p> <ul style="list-style-type: none">○ Text (numbers, characters, Boolean)<ul style="list-style-type: none">▪ File format: doc, xls, ppt, pdf, html○ Image<ul style="list-style-type: none">▪ File format: bmp, jpg, png, gif, svg, obj▪ Lossy compression and lossless compression○ Video<ul style="list-style-type: none">▪ File format: mp4, avi○ Audio<ul style="list-style-type: none">▪ File format: mp3, wav <p>Information system and its components</p> <p>Data Organization and Data control</p> <p>Input error and source error</p> <p>Data control: validation and verification</p> <p>Database and DBMS</p> <ul style="list-style-type: none">○ Field, record, table, database○ SQL command (qualitative knowledge only)○ DBMS features (filtering, index, query forms, reports) |

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| <p>ICT</p> | <p>Number and Character coding system</p> <p>Denary, binary, hex number and their conversion</p> <p>Number representation in computer</p> <ul style="list-style-type: none"> ○ Bit(b), Byte(B), KB, MB, GB, TB ○ Signed and unsigned binary integers ○ 1's complement and 2's complement ○ Addition and subtraction in computer <ul style="list-style-type: none"> ▪ Calculate subtraction in computer using 2's complement ○ Overflow error <p>Character coding system: ascii, Unicode, big5, gb codes</p> <p>Spreadsheets</p> <p>Basic functions: sum, average, count, countif, if, concatenate</p> <p>Understanding absolute and relative referencing of cell address</p> <p>Computer hardware: storage devices</p> <p>Primary and secondary storage device</p> <p>Difference between RAM and ROM</p> <p>Access mode: sequential and direct</p> |
| <p>Chi. History</p> | <p>周代封建 春秋戰國的政治與社會變動 秦漢的統治政策</p> <p>即《高中中國歷史 4 上》 p.8-111</p> |

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| Geog | <ul style="list-style-type: none"> • Unit 1 Opportunities and Risks - Is it rational to live in hazard-prone areas? <ul style="list-style-type: none"> 1.1 Why is our earth unstable? 1.2 What are the major internal forces and processes affecting the earth? What are the resultant landforms/features? 1.3 What are the major landforms found at the plate boundaries? 1.4 How do plate movements create hazards? 1.5 What destruction do tectonic hazards cause? How can we deal with them? 1.6 Is it rational to choose to live in hazard-prone areas? |
| Phy | <p>Book 1: Heat and Gases (Ch. 1 – 3)</p> <p>Book 2: Force and Motion (Ch. 5)</p> |