MGS Integrated Programme

MGS Integrated Programme (Y1 to Y4) and IB Curriculum Structure & Subject Options

Miss Choo Siew Bee, Dean (Academic Studies)
Aim

The MGS Integrated Programme (IP) seeks to develop and nurture Godly women of Excellence with a heart of Love; inquiring, knowledgeable, principled and caring young women who respect others and help to create a peaceful and better world.
The MGS IP Learner
Inquirer
Communicator
Risk-taker
Thinker
Distinctive Features

Ethics-Infused Approach

• Global Studies
• Philosophy, Thinking and Knowledge
• Independent Studies
• Enrichment/Exploratory Electives Programme
• Passion, Exploration, Aspiration and Knowledge (PEAK) Programme
• The IP Symposium
• Creativity, Action, and Service

* Learning journey captured in E-Portfolio
Signature Programmes

- Global Studies
Signature Programmes

- Philosophy, Thinking & Knowledge

Sec One IP students engaged at a Community of Inquiry (COI) class
Signature Programmes

• Independent Studies
  Research skills
  Research Methodology
  Sampling Techniques
  Data Analysis

Sec Two IP students

River Studies in UK
Passion, Exploration, Aspiration and Knowledge (PEAK) Programme

- Gap semester in Jul – Aug period
- Hallmark of programme:
  - academic and service strands
- Overseas and local PEAK options
  - Summer programmes in US and UK
  - Attachment programmes

Presenting findings to a group of UK educators
The IP Classrooms

- student-centred
- nurturing
- inquiry
- discussion
- enriched
- collaborative
- rigorous
- activities
- research
- question
- fun
- fast
- collaborative
- research
- question
Differentiated Classrooms

**CONTENT**
- Compacted accelerated, enriched
- Connections between subjects
- Connections to the real world
- Concept-based
- Think like a disciplinarian
- Ethics infused

**APPROACH**
- Inquiry-driven
- Collaborative learning
- Independent learning
- Critical thinking
- Creativity
- Problem-solving
- Discussions
- Presentations

Lynn Erickson’s Concept-based Curriculum & The Parallel Curriculum Model by Tomlinson, Kaplan, Renzulli, Purcell, Leppien, Burns
Some Examples of Assessment Modes

- Traditional pen & paper
- Viva Voce/Oral Presentations
- Research projects
- Portfolios
- Multi-media products
- Webquests
Curriculum design and pedagogy are based on well-researched models in gifted education.

Assessment is aligned with IBDP assessments.

Curriculum & assessment designed to develop 21st Century Competencies.
IB Learner Profile

Open-minded
Knowledgeable
Reflective
Balanced
Principled
Caring

Inquirers
Communicators
Thinkers
Risk-Takers
An IP student in the IP-IB Programme

Enjoys
- Discussions
- Reading widely
- Thinking about issues
- Working collaboratively

Is able to
- Entertain multiple perspectives
- Cope with ambiguities
- Work independently

Working collaboratively

Reading widely

Thinking about issues

Working collaboratively
Rigorous & Nurturing Learning Environment

- Participative
- Collaborative Learning
- Inquiry-Driven
- Self-Directed
## Curriculum Structure for Years 1 & 2

### Study of the Disciplines
- Language Arts
- Mother Tongue Lang* (selected students)
- Mathematics
- History
- Geography
- Physical Sciences & Biological Sciences (modular)
- Non-examinable subjects:
  - Global Studies
  - Exploratory Enrichment
  - Electives
  - Music (MEP)*
  - Art*

### Pre-IB Imperatives
- Philosophy, Thinking and Knowledge (PTK)
- Independent Studies (IS)
- Creativity, Action and Service (CAS)

### Curriculum Enrichments
- Sophia Blackmore Lecture (SBL)
- Regional Youth Conference (RYC)
- IP Symposium
- Passion, Exploration, Aspiration, and Knowledge (PEAK) Programme

### Physical Education
- Godliness, Excellence and Love (GEL) Programme

### Reality Outside Classrooms (ROCs) Programme

*O-level papers*
### Curriculum Structure for Years 3 & 4

#### Study of the Disciplines
- Language Arts
- Mother Tongue Lang*
- Core Mathematics
- Advanced Mathematics
- Global Studies
- History
- Geography
- Biology
- Chemistry
- Physics
- Music (MEP)*
- Art*
- Third Language*

*O-level papers

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- IP Symposium
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#### Programme
- Physical Education
- Godliness, Excellence and Love (GEL) Programme
- Reality Outside Classrooms (ROCs) Programme
- Student Leadership Programme
### Subject Combination for Year 3 – 4 IP

<table>
<thead>
<tr>
<th>5 Compulsory Subjects</th>
<th>2 Electives</th>
<th>Non-examinable (bonus points)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language Arts</td>
<td>2 Sciences</td>
<td>Philosophy, Thinking and</td>
</tr>
<tr>
<td>Mother Tongue Language (HMT/MT)</td>
<td>&amp; 1 Humanities &amp; Philosophy, Thinking and Knowledge</td>
<td>Knowledge</td>
</tr>
<tr>
<td>Core Mathematics</td>
<td>(Hist or Geog) / MEP/ Art/L3</td>
<td>Independent</td>
</tr>
<tr>
<td>Advanced Mathematics</td>
<td>OR 3 Sciences</td>
<td>Studies</td>
</tr>
<tr>
<td>Global Studies</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
O-Level Exams for Year 4

IP students will need to take these subjects at O-levels:

1. Mother Tongue
2. Higher Mother Tongue
3. Music (MEP)
4. Third Language
Grading System

The grading system for most subjects in Years 1 to 4 IP follows a 7 – point scale:

<table>
<thead>
<tr>
<th>Marks</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>80 or more</td>
<td>7</td>
</tr>
<tr>
<td>70 - 79</td>
<td>6</td>
</tr>
<tr>
<td>60 – 69</td>
<td>5</td>
</tr>
<tr>
<td>50 – 59</td>
<td>4</td>
</tr>
<tr>
<td>40 – 49</td>
<td>3</td>
</tr>
<tr>
<td>20 – 39</td>
<td>2</td>
</tr>
<tr>
<td>0 – 19</td>
<td>1</td>
</tr>
</tbody>
</table>
Philosophy, Thinking & Knowledge (PTK) and Independent Studies (IS)

1 to 3 Bonus points awarded for PTK and IS based on a matrix below

The PTK-IS Points Matrix (parallel to IB-DP)

<table>
<thead>
<tr>
<th>Independent Studies</th>
<th>Philosophy, Thinking and Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Excellent</td>
</tr>
<tr>
<td>Excellent A</td>
<td>3</td>
</tr>
<tr>
<td>Good B</td>
<td>3</td>
</tr>
<tr>
<td>Satisfactory C</td>
<td>2</td>
</tr>
<tr>
<td>Mediocre D</td>
<td>2</td>
</tr>
<tr>
<td>Elementary E</td>
<td>1</td>
</tr>
<tr>
<td>Not Submitted</td>
<td>N</td>
</tr>
</tbody>
</table>
## Promotion Criteria

<table>
<thead>
<tr>
<th>Levels</th>
<th>Promotion Criteria to the next level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1 – 4</td>
<td>1. An overall aggregate point of at least 26 points based on 6 relevant subjects</td>
</tr>
<tr>
<td></td>
<td>2. At least 1 bonus point for performance in PTK and IS and</td>
</tr>
<tr>
<td></td>
<td>3. A grade requirement of at least grade 4 or better in the 6 relevant subjects.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>The six relevant subjects for Year 1 and 2 are:</td>
<td>The six relevant subjects for Year 3 and 4 are:</td>
</tr>
<tr>
<td>1. Language Arts</td>
<td></td>
</tr>
<tr>
<td>2. Mother Tongue*</td>
<td></td>
</tr>
<tr>
<td>3. History/Geography</td>
<td></td>
</tr>
<tr>
<td>5. Physical Science/Biological Sciences</td>
<td></td>
</tr>
<tr>
<td>6. Any other subject</td>
<td></td>
</tr>
</tbody>
</table>
IB Subjects offered in ACS (Independent)

Group 1: Language A
- English: Literature; Language & Literature (SL/HL)
- Chinese: Literature; Language & Literature (SL)

Group 2: 2nd Language
- English B/Chinese B/ Malay B/Tamil B/ Hindi B (SL)
- ab initio (SL) – Spanish, French, Mandarin & Malay

Group 3: Individuals & Societies
- Business & Management (HL/SL)
- Economics (HL/SL)
- Geography (HL/SL)
- History (HL/SL)

Group 4: Experimental Sciences
- Biology (HL)
- Chemistry (HL/SL)
- Physics (HL/SL)
- Computer Science (HL/SL)
- Environmental Systems & Societies (SL)

Group 5: Mathematics & Computer Science
- Mathematical Studies (SL)-Mathematics (HL/SL)

Group 6: The Arts
- Music (HL)
- Visual Arts (HL/SL)

Inter-disciplinary subject
- Environmental Systems & Societies SL (inter-disciplinary of Biology and Geography)
- Meets the requirements of 2 groups namely Grp 3 & 4 through a single subject
- Allows students to have more flexibility in choice of other subjects
IB Subjects offered in ACS (Independent)

Six Discipline Groups

- Students are required to take 5 subjects from Groups 1 to 5
  - 6th subject – 2nd choice subject from Groups 1 to 5 or a Group 6 subject (*certain exceptions apply)

- Subjects taken at
  - Higher Level (240 hrs)
  - Standard Level (150 hrs)

- 3 HL and 3 SL subjects

3 Core Requirements

1. Extended Essay (EE)
2. Theory of Knowledge (TOK)
3. Creativity Action Service (CAS)
IBDP Group 2 Subjects

**Language B** *(SL)* courses are intended for students who have had some previous experience of learning the language.

**Language ab initio** *(SL)* courses are for beginners These courses are only available at standard level. To offer these subjects, students must not have studied the language before.

The following languages are offered in ACS (Independent):

- **Language B**: English B, Chinese B, Malay B, Tamil B and Hindi B
- **Language ab initio**: French ab, Spanish ab, Mandarin ab and Malay ab
IBDP Group 2 Subjects & MOE Bilingual Policy

1. Students who have obtained a D7 grade or better for the Higher MT at the GCE ‘O’ Level Examination or officially exempted from MT Languages

- Can offer any Group 2 language.

*To offer an ab initio language, a student must not have taken formal instruction in the language before

2. Students who have not taken HMT nor exempted from MT

- Need to offer the GCE ‘AO’ Level H1 MT or
- Offer Chinese syllabus B, Malay syllabus B or Tamil syllabus B

Examination at end of Year 5
<table>
<thead>
<tr>
<th>O-level MT @ Yr 4</th>
<th>O-level results</th>
<th>Group 2 option</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCL, HML, HTL</td>
<td>A1 – D7</td>
<td>Lang B or Lang ab initio</td>
</tr>
<tr>
<td></td>
<td>E8 or F9</td>
<td>Lang B or Lang ab initio + A-level H1 MT</td>
</tr>
<tr>
<td>CL, ML, TL, Hindi</td>
<td>A1 – C6</td>
<td>Lang B or Lang ab initio + A-level H1 MT</td>
</tr>
<tr>
<td>CLB, MLB, TLB</td>
<td>Pass or merit</td>
<td>Lang B* or Lang ab initio + A-level H1 MTB</td>
</tr>
<tr>
<td>Exempted from MT</td>
<td>NA</td>
<td>Lang B or Lang ab initio</td>
</tr>
<tr>
<td>FL, GL, JL in lieu of MT</td>
<td>A1 – C6</td>
<td>Lang ab initio + A-level H1 FL</td>
</tr>
</tbody>
</table>

# IB DP Group 2 exams: Chinese B, Malay B, Tamil B in Nov Yr 5; Hindi B & Malay abitio in May Yr 6; French ab, Spanish ab, Mandarin ab in Nov Yr 6 A-level exams in Nov Yr 5. * on a case-by-case basis
IB Points Score

- **Total Score**
  - sum of the 1-7 grade points x 6 subjects
  - plus 0-3 bonus points for TOK/EE
  - max score: $7 \times 6 + 3 = 45$ points

- **Passing Score**
  - minimum 24 points
  - Not too many subjects < 4 points
  - must meet TOK/EE/CAS requirements
University Admissions

- Most institutions
  - about 95% will accept 32-36 points
- Top institutions
  - some require 37-42 points and above

- Considered tougher than usual A-Levels
- But less content-laden than
  - e.g. SG-Cambridge, London, HK A-Levels
Year 3 IP Applications

Selection Criteria

1. Academic results in the PSLE, in Sec 1 & 2
2. Results of selection test (evaluates problem-solving strategies, reasoning ability and IQ)

3. The student’s personal portfolio of special academic awards and achievements, co-curricular activities, leadership roles and participation in VIA activities, special talents and project work

4. A personal statement
5. Teachers’ recommendations (NA for MGS students)
6. An interview for shortlisted candidates
# Year 3 IP Application

## Some Important Dates to Note

<table>
<thead>
<tr>
<th>Online submission:</th>
<th>16 May – 6 June (4 pm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hard copy applications &amp; documents</td>
<td>6 June 2014 (4 pm)</td>
</tr>
<tr>
<td>Selection Test date</td>
<td>28 June 2014 Saturday 8:30 am to 12:30 pm</td>
</tr>
<tr>
<td>Interview for shortlisted students</td>
<td>21 - 24 July 2014</td>
</tr>
<tr>
<td>Results of applications</td>
<td>late October 2014</td>
</tr>
</tbody>
</table>