(H) Chemistry

1. Aims

The broad aims of the Chemistry Curriculum are to enable students to:

(i) develop interest and maintain a sense of wonder and curiosity about chemistry;
(ii) construct and apply knowledge of chemistry, and appreciate the relationship between chemistry and other disciplines;
(iii) appreciate and understand the evolutionary nature of science;
(iv) develop skills for making scientific inquiries;
(v) develop the ability to think scientifically, critically and creatively, and solve problems individually and collaboratively in chemistry-related contexts;
(vi) discuss science-related issues using the language of chemistry;
(vii) make informed decisions and judgments on chemistry-related issues;
(viii) develop open-mindedness, objectivity and pro-activeness;
(ix) show appropriate awareness of working safely;
(x) understand and evaluate the social, ethical, economic, environmental and technological implications of chemistry, and develop an attitude of responsible citizenship.

2. Curriculum Framework

(i) Compulsory Part (Total 198 hours)
- Planet earth (8 hours)
- Microscopic world I (24 hours)
- Metals (22 hours)
- Acids and bases (27 hours)
- Fossil fuels and carbon compounds (20 hours)
- Microscopic world II (8 hours)
- Redox reactions, chemical cells and electrolysis (26 hours)
- Chemical reactions and energy (9 hours)
- Rate of reaction (9 hours)
- Chemical equilibrium (10 hours)
- Chemistry of carbon compounds (27 hours)
- Patterns in the chemical world (8 hours)

(ii) Elective Part (Total 52 hours, select any 2 out of 3)
- Industrial chemistry (26 hours)
- Materials chemistry (26 hours)
- Analytical chemistry (26 hours)

(iii) Investigative Study (20 hours)
- Investigative study in chemistry
### 3. Public Examinations

<table>
<thead>
<tr>
<th>Component</th>
<th>Outline</th>
<th>Weighting</th>
<th>Duration</th>
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<tbody>
<tr>
<td>Public examination</td>
<td>Paper 1 Compulsory Part</td>
<td>60%</td>
<td>2½ hours</td>
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<td>Paper 2 Elective Part (a choice of two out of three elective topics)</td>
<td>20%</td>
<td>1 hour</td>
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<tr>
<td>School-based assessment (SBA)</td>
<td>Practical related tasks and non-practical related tasks</td>
<td>20%</td>
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