Curriculum Structure and Organisation

The curriculum consists of compulsory and elective parts. The compulsory part covers a range of content that enables students to develop an understanding of fundamental chemistry principles and concepts, and scientific process skills. The elective part aims to provide an in-depth treatment of some of the compulsory topics, or an extension of certain areas of study. The elective part consists of three topics: “Industrial Chemistry”, “Analytical Chemistry” and “Materials Chemistry”. The school will offer the first two electives in SS3 (form 6).

To facilitate the integration of knowledge and skills, students are required to conduct an investigative study relevant to the curriculum. The content of the curriculum is divided into 15 topics and an investigative study.

**Compulsory Part**
Form 3  I. Planet earth  
II. Microscopic world I  
Form 4  III. Metals  
IV. Acids and bases  
V. Fossil fuels and carbon compounds  
VI. Microscopic world II  
Form 5  VII. Redox reactions, chemical cells and electrolysis  
VIII. Chemical reactions and energy  
IX. Rate of reaction  
X. Chemical equilibrium  
Form 6  XI. Chemistry of carbon compounds  
XII. Patterns in the chemical world

**Elective Part**
Form 6  XIII. Industrial chemistry  
XV. Analytical chemistry

**Investigative Study (from SS1 to SS3)**
XVI. Investigative study in chemistry

**An Outline of Assessment**

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