<table>
<tr><td colspan="6">Salesian International School 2025-2026 Module Rubric</td></tr>
<tr><td>Year</td><td>10</td><td>Course</td><td>AG Chemistry</td><td>Credits</td><td>5</td></tr>
<tr><td>Term</td><td colspan="2">1 & 2</td><td>Exam</td><td colspan="2">End of term assessment</td></tr>
<tr><td>Course Summary</td><td colspan="4">By the end of Year 10, In Chemistry students would be able to analyze how elements are organised in the periodic table and would be able to make predictions about their properties based on their position. They will be able to explain how chemical reactions are used to produce particular products and how the rates of these reactions could be affected by various factors.</td><td>Required Materials

Chemistry notebook
Binder
Writing and drawing tools
Lab notebook
IP/PC</td></tr>
<tr><td colspan="5">Assessment Basis</td><td rowspan="4">Course Content

<u>Term grades would be calculated following the point value system for each level and domain.</u>

Key Topics Term 1:
● The periodic table
● Chemical reactions

Assessment Term 1:
● Trends in the periodic table
● Balancing</td></tr>
<tr><td></td><td>Knowledge Fundamentals</td><td>Application Communication</td><td colspan="2">Inquiry Creativity</td></tr>
<tr><td>Research

Level 3: Creative Thought</td><td>A3

● I can explain how the electronic structure of an atom determines its position in the periodic table and its properties.
● I can calculate the relative formula mass or the relative molecular mass of a compound
● I can calculate the heat energy of a substance.</td><td>B3

● I can model chemical reactions in terms of the rearrangements of atoms.
● I can calculate the percentage composition of an element in a compound
● I can include states of matter in a chemical reaction
● I can interpret solubility curves.
● I can transpose equations.</td><td colspan="2">C3

● I can investigate a range of factors such as temperature and catalyst on the rate of chemical reactions
● I can investigate how chemical reactions can be used to produce useful products such as fuel and pharmaceuticals.
● I can calculate the concentration of solutions
● I can recognise and write balanced oxidation,reduction and redox equations.</td></tr>
<tr><td>Applicati</td><td>A2</td><td>B2</td><td colspan="2">C2</td></tr>
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on **Level 2: Critical Thought**	• I can describe the structure of atoms in terms of electron shell • I can describe the role of energy in chemical reactions • I can calculate the relative atomic mass of an element.	• I can represent chemical reactions using words and symbols • I can classify a range of chemical reactions as exothermic or endothermic • I can calculate the relative atomic mass of an element.	• I can investigate the chemical activities of metals. • I can predict the products of different types of simple chemical reactions. • I can use ratios in calculations involving chemical quantities.	chemical reactions **Key Topics Term 2:** • Ionic compounds and solubility • Redox reactions **Assessment Term 2:** • Interpret solubility curves • Balance redox reactions
Foundation **Level 1: Logical Thought**	A1 • I can recall that elements in the same group of the periodic table have similar properties. • I understand the difference between metallic, ionic and covalent bonding.	B1 • I can explain how balanced chemical reactions demonstrate that mass is conserved. • I can predict whether a covalent bond will be polar or nonpolar. • I can name and write the formula of ionic compounds	C1 • I can investigate the development of the periodic table and how it was dependent on experimental evidence at the time. • I can investigate the reaction of acid with bases, metals and carbonates. • I can recognise and write balanced ionic equations.	**Notes, Means of Assessment** • PBL • Formative Assessments • End of unit assessment
	Basics	**Development**	**Judgment**	