**Maroochydore SHS Chemistry Scope and sequence 2022**

**Unit 3 and 4 Teaching Plan Overview**

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| **Term** |  | **Assessment** | **Subtopic** |  |
| **Year 11****Term 4** | 1 | Completion of Unit 2 and year 11 End of U it 1 and 2 EXAM |
| 2 |
| 3 |
| 4 |  | Redox Reactions | Unit 3 Topic 2 |
| 5 |  | Redox Reactions | Unit 3 Topic 2 |
| 6 |  | Electrochemical Cells/Galvanic Cells | Unit 3 Topic 2 |
| 7 |  | Galvanic Cells | Unit 3 Topic 2 |
| 8 |  | Standard Electrode Potentials/Electrolytic Cells | Unit 3 Topic 2 |
| **Year 12****Term 1** | 1 |  | Chemical Equilibrium | Unit 3 Topic 1 |
| 2 |  | Factors that Effect Equilibrium | Unit 3 Topic 1 |
| 3 |  | Equilibrium Constants | Unit 3 Topic 1 |
| 4 |  | Volumetric Analysis : Part 1 | Unit 3 Topic 1 |
| 5 |  | Dissociation Constants | Unit 3 Topic 1 |
| 6 | **DATA TEST (10%)** | pH scale | Unit 3 Topic 1 |
| 7 | **Hand out** STUDENT EXPT | Acid-base Indicators | Unit 3 Topic 1 |
| 8 | Submit IA1 by 20 March | Properties of acids and bases/Bronsted-Lowry model | Unit 3 Topic 1 |
| 9 | School notified of IA1 samples 24/3Submit 30/3 | Volumetric Analysis : Part 2 | Unit 3 Topic 1 |
| 10 | STUDENT EXPERIMENT |  |  |
| **Year 12****Term 2** | 1 | STUDENT EXPERIMENT: **Draft due** |  |  |
| 2 |  | Structure of Organic Compounds (3) |  |
| 3 | STUDENT EXPERIMENT |  | Unit 4 Topic 1 |
| 4 | **STUDENT EXPERIMENT DUE (20%)** | Structure of Organic Compounds (2) | Unit 4 Topic 1 |
| 5 | **Hand out** Research task **(1)** | Structure of Organic Compounds (2) | Unit 4 Topic 1 |
| 6 |  | Organic Materials structure & function, Macromolecules (3) | Unit 4 Topic 2 |
| 7 | Research Question checked **(1)** | Organic Materials structure & function, Macromolecules (2) | Unit 4 Topic 2 |
| 8 | Research data **(1)** | Organic Materials structure & function, Macromolecules (2) | Unit 4 Topic 2 |
| 9 | Check data **(1)** | Organic Materials structure & function, Macromolecules (2) | Unit 4 Topic 2 |
| 10 | Check analyse & evaluate data **(1)** | Organic Reactions and Reaction Pathways (2) | Unit 4 Topic 1 |
| **Year 12****Term 3** | 1 | Research Task **Draft due** **(1)** | Organic Reactions and Reaction Pathways (2) | Unit 4 Topic 1 |
| 2 | Drafting improvement **(1)** | Organic Reactions and Reaction Pathways (2) | Unit 4 Topic 1 |
| 3 | Drafting improvement **(1)** | Physical Properties and Trends (2) | Unit 4 Topic 2 |
| 4 | **STUDENT RESEARCH DUE (20%)** | CATCHUP/ RESEARCH INVESTIGATION | Unit 4 Topic 2 |
| 5 |  | Chemical Synthesis | Unit 4 Topic 2 |
| 6 | Provisional results IA1 and IA2 21/8 | Chemical Synthesis | Unit 4 Topic 2 |
| 7 | School notified of samplesSubmit by 28/8 | Molecular Manufacturing/Green Chemistry | Unit 4 Topic 2 |
| 8 |  | Analytical Techniques | Unit 4 Topic 1 |
| 9 | Mock Exam | Analytical Techniques (mocks occur this week ) | Unit 4 Topic 1 |
| 10 | Mock Exam |  |  |
| **Year 12****Term 4** | 1 | REVISION |  |  |
| 2 | REVISION |  |  |
| 3 | REVISION |  |  |
| 4 | **EXAM BLOCK (50% EXAM)** |  |  |
| 5 | EXAM BLOCK |  |  |
| 6 to 8 | EXAM BLOCK |  |  |