



# AceTute Y11/12 NSW HSC Chemistry Syllabus

2014 Revision

# AceTute

AceTute's Year 11 and 12 Chemistry courses prepares students not only for the topics conducted under the NSW Department of Education and Training HSC and Preliminary Syllabus, but also for the format and layout of the final and University style exams. Our courses aim to accelerate the topics normally covered by high schools and work at a pace which is comfortable for the student and their parents/caregivers

## Chemistry Year 11 NSW

### Term 1: The Chemical Earth

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1. Living and Non-living Components of the Earth
2. Combined and Uncombined Elements
3. Compounds
4. Energy and Extraction of Elements from Sources
5. Element Bonding and Structure
6. Termly Revision

### Term 2: Metals

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1. Extraction
2. Reactivity
3. The Periodic Table
4. Industrial Chemical Reactions
5. Abundance and Ease of Extraction
6. Termly Revision

### Term 3: Water

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1. Solid, Liquid and Gas
2. Molecular Structure and Hydrogen Bonding
3. Water as a Solvent
4. Reactions and Solubility
5. Heat Capacity
6. Termly Revision

### Term 4: Energy

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1. Living Organisms as Sources of Energy
2. Carbon Compounds
3. Carbon Compounds From Organic Sources
4. Combustion
5. Rate of Energy Release
6. Yearly Revision

## Chemistry Year 12 NSW

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### Term 1: Production of Materials

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1. Fossil Fuels
2. Biomass
3. Renewable Resources
4. Oxidation-Reduction Reactions
5. Nuclear Chemistry
6. Termly Revision

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### Term 2: The Acidic Environment

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1. Indicators for Soil Composition
2. Oxides in the Atmosphere
3. Acids
4. Acids and Bases
5. Esterification
6. Termly Revision

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### Term 3: Chemical Monitoring and Management

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1. Managing Reaction Conditions
2. Monitoring and Managing to Maximise Production
3. Chemical Composition of Manufactured Products
4. Monitoring the Atmosphere
5. Monitoring and Management of Waterways
6. Termly Revision

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### Term 4: Option

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1. Student Selected Option
2. Final Exam Revision

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