

11th Grade IB Chemistry, Higher Level & Standard Level

Knowledge Content

Students will cover the following topics:

- Stoichiometry
- Atomic theory
- Periodicity
- Bonding
- States of matter
- Energetics
- Kinetics
- Equilibrium
- Oxidation and reduction.

Skills Content

In relation to the topics listed above, students will develop skills that enable them to:

- Develop skills of scientific investigation while planning laboratory work
- Develop skills of collecting, analysing, evaluating and synthesising data
- Develop manipulative skills (make measurements, handle information and model ideas) and personal skills related to practical laboratory work
- Develop collaborative skills and an understanding of interdisciplinary cooperation while undertaking the Group 4 Project
- Develop information and communication technology skills in order to process and communicate information effectively
- Broaden understanding and use of scientific terminology and concepts
- Develop understanding of knowledge, methods and techniques which characterise science
- Develop skills of independent study and research.

Assessment

- Criterion based assessment of laboratory work and written reports. This will form 24% of the final grade
- Quizzes and short tests
- End of topic tests
- Oral and written presentations.

Examinations

Internal end of semester exams

External International Baccalaureate Chemistry exam at the end of 12th Grade.

Resources

IB Chemistry text books include:

- Zumdahl *Chemistry, 5th Edition*
- Neuss, *Chemistry for the IB Diploma*
- Green and Damji, *Chemistry for Use with IB.*

Prerequisites

Successful completion of 10th Grade Integrated Science course.

Credits

Full year course forming part of a two year externally assessed programme: One Credit.