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| cid:6E6F43EA-C978-4DE4-8F03-193F09DC6E29@Home  IB Chemistry (HL/SL)  Exam Board: Intenrational Baccualuratte |

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| **About this subject** |
| Chemistry is an experimental science that combines academic study with the acquisition of practical and investigational skills. It is often called the central science, as chemical principles underpin both the physical environment in which we live and all biological systems.  Apart from being a subject worthy of study in its own right, chemistry is a prerequisite for many other courses in higher education, such as medicine, biological science and environmental science, and serves as useful preparation for employment.  Earth, water, air and fire are often said to be the four classical elements. They have connections with Hinduism and Buddhism. The Greek philosopher Plato was the first to call these entities elements. The study of chemistry has changed dramatically from its origins in the early days of alchemists, who had as their quest the transmutation of common metals into gold. Although today alchemists are not regarded as being true scientists, modern chemistry has the study of alchemy as its roots. Alchemists were among the first to develop strict experimentation processes and laboratory techniques. Robert Boyle, often credited with being the father of modern chemistry, began experimenting as an alchemist.  The Diploma Programme chemistry course includes the essential principles of the subject but also, through selection of an option, allows teachers some flexibility to tailor the course to meet the needs of their students.. |
| **Course content** |
| * [Stoichiometric relationships](https://ibpublishing.ibo.org/server2/rest/app/tsm.xql?doc=d_4_chemi_gui_1402_1_e&part=3&chapter=1) * [Atomic structure](https://ibpublishing.ibo.org/server2/rest/app/tsm.xql?doc=d_4_chemi_gui_1402_1_e&part=3&chapter=2) * [Periodicity](https://ibpublishing.ibo.org/server2/rest/app/tsm.xql?doc=d_4_chemi_gui_1402_1_e&part=3&chapter=3) * [Topic 4: Chemical bonding and structure](https://ibpublishing.ibo.org/server2/rest/app/tsm.xql?doc=d_4_chemi_gui_1402_1_e&part=3&chapter=4) * [Energetics/thermochemistry](https://ibpublishing.ibo.org/server2/rest/app/tsm.xql?doc=d_4_chemi_gui_1402_1_e&part=3&chapter=5) * [Chemical kinetics](https://ibpublishing.ibo.org/server2/rest/app/tsm.xql?doc=d_4_chemi_gui_1402_1_e&part=3&chapter=6) * [Equilibrium](https://ibpublishing.ibo.org/server2/rest/app/tsm.xql?doc=d_4_chemi_gui_1402_1_e&part=3&chapter=7) * [Acids and bases](https://ibpublishing.ibo.org/server2/rest/app/tsm.xql?doc=d_4_chemi_gui_1402_1_e&part=3&chapter=8) * [Redox processes](https://ibpublishing.ibo.org/server2/rest/app/tsm.xql?doc=d_4_chemi_gui_1402_1_e&part=3&chapter=9) * [Organic chemistry](https://ibpublishing.ibo.org/server2/rest/app/tsm.xql?doc=d_4_chemi_gui_1402_1_e&part=3&chapter=10) * [Measurement and data processing](https://ibpublishing.ibo.org/server2/rest/app/tsm.xql?doc=d_4_chemi_gui_1402_1_e&part=3&chapter=11)   Options  [A: Materials](https://ibpublishing.ibo.org/server2/rest/app/tsm.xql?doc=d_4_chemi_gui_1402_1_e&part=5&chapter=1)  B: Biochemistry  C: Energy  D: Medicinal Chemistry |
| **Assessment details** |
| * Internal assessment (individual investigation): 20% * External assessment: 80% |