

## Summary

### Internal Assessment

Subject	Year	Start date	Duration
Chemistry	IB2	Week 2, October	<b>2 weeks</b> 10 hours

#### Course Part

Core and Higher level

#### Description

Internal assessment is the mandatory requirements for all Chemistry students. Students will plan, conduct, collect and analyse an experimental method to evaluate a scientific concept studied as part of the curriculum.

## Inquiry & Purpose

### Inquiry / Higher Order Questions

#### Type

#### Inquiry Questions

Skills-based

To be able to create an investigation to test the scientific theory / concept

## Curriculum

### Aims

Apply and use a body of knowledge, methods and techniques that characterize science and technology

Develop an ability to analyse, evaluate and synthesize scientific information

Develop a critical awareness of the need for, and the value of, effective collaboration and communication during scientific activities

Develop experimental and investigative scientific skills including the use of current technologies

Develop and apply 21st century communication skills in the study of science

Develop an appreciation of the possibilities and limitations of science and technology

### Objectives

#### Demonstrate knowledge and understanding of

methodologies and techniques

#### Apply

methods of communicating scientific information

### Formulate, analyse and evaluate

- hypotheses, research questions and predictions
- primary and secondary data
- scientific explanations

### ATL Skills

#### Approaches to Learning



#### Self-management

- In this unit, we will
  - set deadlines for students to meet
  - require students to revise and improve on work previously submitted
  - ask students to set their own learning goals
  - ask students to break down a larger task into specific steps
  - ask students to look for personal relevance in the subject matter
  - practise or discuss strategies to increase concentration
  - give students feedback on their approach to a task
  - model positive skills and behaviours such as being well organized and punctual
  - help students to learn from failures or mistakes
  - create an atmosphere where students do not think they have to get everything right first time
  - discuss planning and approaches to revision



#### Research

- In this unit, we will
  - require students to formulate/construct a focused research question (either in class or in a homework assignment)
  - reward or encourage correct citing and referencing
  - assign a task that required students to use the library
  - require students to practise effective online search skills (for example, use of Booleans and search limiters)
  - provide opportunities for students to reflect on how they determine the quality of a source, or analyse contradictory sources
  - require students to record their search for sources in steps (types of search engines, search terms, and so on)
  - give students advice on (or provide an opportunity for students to practise) narrowing the scope of a task to make it more manageable
  - discuss or model the importance of academic honesty and clear acknowledgment of sources

IB DP IB Chem HL 2021 (IB2)



## Developing IB Learners

### ☆ Learner Profile



Inquirers



Thinkers



Principled