COURSE TITLE: IB Chemistry Year 2

Level of Difficulty	Estimated Homework	Prerequisites
Very Difficult	60-90 minutes	**District:** B- or better in IB Chemistry 1 **Department Suggestion:** B- or better in Math Analysis IB Math: Analysis & Approaches OR IB Math: Applications and Interpretation (minimum concurrently)

Course Description:

In IB Chemistry 2, students will continue exploring the interrelationships between core concepts in chemistry through inquiry, investigation, independent thinking, research, analysis, and application. As part of IB Chemistry 2, students will conduct their own extensive, independent research and wet-lab addressing an approved question of their choosing. Students will communicate their findings in a complete, formal lab report following IB's guidelines as learned in year 1. This internal assessment will be a significant class grade as well as a percentage of their final IB exam score.

Grading:

Regular homework assignments are intented for practice of concepts learned, and therefore will be graded based on completion and will make up a small percentage of the oveall grade. While homework assignments are an important part of the learning process, the primary means of assessing understanding of concepts will be through lab reports, quizzes and tests, which together consititute the majority of the overall grade. There will also be a cumulative end of course final exam.

Syllabus:

This will be distributed by the teacher at the start of each school year. Units of study will include measurement and data processing, oxidation and reduction, organic chemistry, analytical chemistry, food science and energy. Additionally, a significant portion of time will be dedictated to formal IB internal assessment, which is an independent investigation.

Supplemental Information:

During the course, students will work outside of class in groups of 3-5, composed of both IB Biology and IB Chemistry students, to conduct a joint exploration of a scientific topic.

Students will be prepared for the Higher Level exam in May of the senior year after taking NPHS's Honors Chemistry, IB Chemistry 1 and IB Chemistry 2 as these courses were designed in sequence to ensure all IB Chemistry content and skills were taught.

Homework Estimate: This is a general guideline for planning and scheduling purposes. A student's ability level may affect actual preparation time needed.