



## Chemistry 12

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### **Introduction**

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Welcome to Chemistry 12! As you know, chemistry is the science focused on the materials and matter that make up our physical world – the study of the relationships between the molecular world and our everyday world. It is involved in almost everything with which we come in contact. With this broad scope, chemistry offers an exciting array of intellectual adventures and opportunities. This is an advanced course on the analytical study and application of chemistry to a wide range of applications. Prepare to delve into the wonderful inner workings of matter!

### **Topics in Chemistry 12**

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Reaction Kinetics  
Dynamic Equilibrium  
Solution Equilibria  
Analyzing Acids and Bases  
Quantifying Acid-Base Behaviours  
Applications of Acid-Base Reactions  
Oxidation-Reduction (Redox)  
Applications of Redox

### **What is Chemistry 12 like?**

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You will learn principles, see demonstrations online, write and solve problems about these activities. Chemistry 12 focuses on depth of understanding and applications of chemistry knowledge and technique. This is an intense and challenging course. Laboratory skills are further developed; scientific literacy and fluent numeracy are assumed. Chemistry 12 provides an indispensable foundation for further study in analytical sciences.

## **Assessment**

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Grades will be calculated according to the following weightings.

Assignments	30%
Unit Tests	50 %
Final Exam	20%

## **Attendance and Withdrawal Policy**

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Please be aware that Island Connect K -12 does not have a general attendance requirement. However, it is in your best interests to make a habit of checking in with Kim Pepler (your teacher) at least once a week – face to face, by email, phone or through the virtual office link above. Past learners have stated that such contact promotes engagement with the course materials and serves to motivate them to complete the work in a timely fashion.

## **Completion Timeline Expectations**

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Successful learners typically finish within four months of initial enrollment in this course. COMMIT to achieving your goals! Get a calendar out and plan how you and when you will complete each lesson in the first two units immediately. If you mess up, do your best to catch up, but change the timeline right away to reflect this change and, then, do your best to never let yourself fall behind again.