

# ACADEMIC PROGRAMS

## Semester I

# Year 12 Chemistry

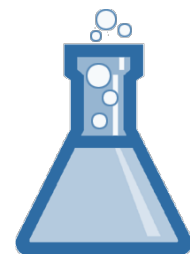
### Disclaimer

Under QSA guidelines summative assessment depends on the fullest and latest information on a student's performance, based on a process of continuous assessment. This gives a stability to teacher judgments and shows how students progress. Thus formative assessment informs the end-of-course summative judgment.

### And

Unless otherwise specified Year 11 Assessment is Formative and Year 12 Assessment is Summative.

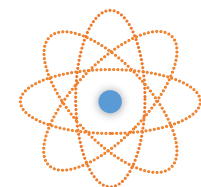
# FAIRHOLME SCIENCE DEPARTMENT



Course: Grade 12 Chemistry

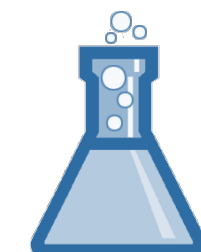
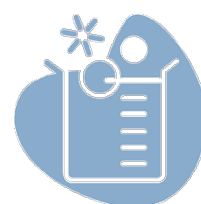
Outline: SEMESTER 1, 2017

Introduction: Chemistry of Water



## Term 1 and 2

Only a very small percentage of the liquid water found on Earth is pure. The vast majority has something dissolved in it such as salts and gases, and this is why water is often referred to as “The Universal Solvent”. The debate on Global Warming has concentrated on the amount of Carbon Dioxide gas in the atmosphere and in particular, anthropogenic CO<sub>2</sub> as a result of burning fossil fuels. This is an emotive issue. One less debated effect of burning fossil fuels and increased CO<sub>2</sub> levels in the atmosphere is its effects on our oceans and waterways. In Term 1, students investigate the chemistry involved in reactions in and with water to gain a better understanding of the debate associated with contemporary issues such as ocean acidification and Enhanced Global Warming. In Term 2 students design a limited experiment to investigate one reaction in the complex relationship between gaseous CO<sub>2</sub> and its effect on a property of water, to infer and then extrapolate real world issues associated with increased CO<sub>2</sub> concentrations in the atmosphere.

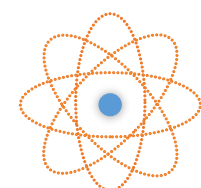


### **Term One –**

- Aqueous Chemistry and Gas/Liquid interactions

### **Term Two –**

- Student directed Extended Experimental Investigation



## Assessment Summary:

### **Term One**

<b>Week</b>	<b>Date</b>	<b>Assessment Task</b>	<b>Formative/Summative</b>
9	Exam Block	2 Hour Exam	Summative

### **Term Two**

<b>Week</b>	<b>Date</b>	<b>Assessment Task</b>	<b>Formative/Summative</b>
1-7	Due 29 May	EI	Summative

