

Year 9 Chemistry Homework term 3.1

Week	Title	Task	Staff Signature
1	Acids /Alkalis and indicators	Create a poster to compare acids and alkalis. Please include diagrams and how you would test pH	
2	Bases and Salts	Draw a flow chart to explain the steps involved in preparing a soluble salt from an insoluble base. You can include diagrams	
3	Alkalis and neutralisation	Describe a titration practical and how it is used to prepare a soluble salt	
4	Reactions of acids with metals and carbonates	Create a fact file of what happens when an acid reacts with a metal and a carbonate. Please include the tests for carbon	
5	Solubility	Create a poster to show the preparation of a pure dry insoluble salt from two soluble salts	

Year 9 Chemistry Homework term 3.2

Week	Title	Task	Staff Signature
6	Empirical formulae	You are given some magnesium ribbon and a crucible. Describe an experiment to determine the empirical formula of magnesium oxide. Extension—How would you use the results to calculate the empirical	
7	Conservation of mass	Make note so that you can explain to a friend who missed a lesson: A) How to calculate the concentration of a solution B) What is the law of conservation of mass	
8	Electrolysis	Create a fact file on what electrolysis is and what happens to the ions during electrolysis	
9	Revision 1	Prepare a revision card for each topic from the last terms homework.	
10	Revision 2	Produce a keyword glossary of each Chemistry topic.	

Year 10 Chemistry Homework term 3.1

Week	Title	Task	Staff Signature
6	Hydrocarbons in crude oil and natural gas	Octane C_8H_{18} is one of the substances in found in petrol. A) Explain why Octane is a hydrocarbon B) State why petrol is non-renewable	
7	Fractional distillation of crude oil	How does the fractional distillation of crude oil work	
8	The alkane homologous series	Describe the difference between the molecular formulae of methane and ethane	
9	Complete and incomplete combustion	Describe a problem caused by one product of the incomplete combustion of natural gas	
10	Revision 1	Produce a keyword glossary of each Chemistry topic.	

Year 10 Chemistry Homework term 3.2

Week	Title	Task	Staff Signature
6	Combustible fuels and pollution	Large ships use fuel oil, which contains sulphur as an impurity. Explain why this can cause environmental problems when ships travel the	
7	Breaking down hydrocarbons	How are crude oil fractions made more useful. Hint—Cracking	
8	The early atmosphere	Describe how the Earth's cooling 4 billion years ago caused a change in the composition of the atmosphere	
9	The changing atmosphere	Explain why the formation of the oceans on Earth may have caused a decrease in atmospheric carbon dioxide levels	
10	The atmosphere today	Describe why the green house effect leads to increased average global temperature	