



Science Separate (Chemistry) Homework - Year 11  
Autumn 1 - Predicting & Identifying Reactions & Products

Retrieval	Reading	Rewarding
1. Quizzes 43 and 44 <b>The Group 1 Metals</b>  Answers to quizzes 43 and 44	2. Questions to match revision guide page 51 <b>Group 1</b>  Answers to questions from page 51	3. Research how caesium is obtained using electrolysis
4. Quizzes 46 and 47 <b>The Halogens</b>  Answers to quizzes 47 and 47	5. Questions to match revision guide pages 52 and 53 <b>The Halogens</b> Answers to questions from pages 52 and 53	6. Research how chlorine is used to make water safe to drink
7. Quiz 49 <b>The Noble Gases</b> and Quiz 50 <b>Transition Metals</b>  Answers to quizzes 49 and 50	8. Questions to match revision guide pages 54 <b>Group 0</b> and 55 <b>Transition Metals</b> Answers to questions from pages 54 and 55	9. Research how transition metals are linked to the colour of gemstones like rubies, sapphires and emeralds



Science Separate (Chemistry) Homework - Year 11  
Autumn 2 - Ion Testing & C5 Monitoring, & Controlling Chemical Reactions

Retrieval	Reading	Rewarding
1. Quizzes 51 Metal reactivity and 53 <b>Identifying Cations and Anions</b>  Answers to quizzes 51 and 53	2. Questions to match revision guide pages 56-61 <b>Identifying Substances</b>  Answers to questions from page 56-61	3. Research how fireworks are made to produce different colours
4. Quizzes 55 and 56 Higher Tier <b>Calculations</b>  Answers to quizzes 55 and 56	5. Questions to match revision guide pages 63-67 <b>Calculations</b>  Answers to questions from page 63-67	6. Research how a mass spectrometer works
7. Quiz 60 Reaction rates and 61 <b>Reversible Reactions</b>  Answers to quizzes 60 and 61	8. Questions to match revision guide pages 68-74 <b>Reaction Rates and Reversible Reactions</b>  Answers to questions from page 56-61	9. Find out about the life of Fritz Haber and his links to the Haber process and World War I



Science Separate (Chemistry) Homework - Year 11  
Spring 1 - C5 Monitoring and Controlling Chemical Reactions and C6 Global Challenges

Retrieval	Reading	Rewarding
1. Quizzes 59 Reaction rates and 60 <b>Reaction Rates</b>  Answers to quizzes 59 and 60	2. Questions to match revision guide pages 68-72 <b>Reaction Rates</b>  Answers to questions from page 68-72	3. Research how sugar lumps and granulated sugar are made
4. Quizzes 62 <b>Le Chatelier's Principle</b> and 63 <b>Ores and Metal Extraction</b>  Answers to quizzes 62 and 63	5. Questions to match revision guide pages 73-76 <b>Dynamic Equilibrium to Metal Extraction</b>  Answers to questions from page 68-72	6. Research how titanium is extracted from the ore ilmenite
7. Quizzes 65 <b>Corrosion</b> and 66 <b>Ammonia and Fertilisers</b>  Answers to quizzes 65 and 66	8. Questions to match revision guide pages 68-74 <b>Reaction Rates</b> and <b>Reversible Reactions</b>  Answers to questions from page 56-61	9. Research how a pressure cooker works



Science Separate (Chemistry) Homework - Year 11  
Spring 2 - Global Challenges

Retrieval	Reading	Rewarding
1. Quizzes 70 <b>Alkenes</b> and 71 <b>Polymers</b>  Answers to quizzes 70 and 71	2. Questions to match revision guide pages 88-91 <b>Alkenes and Polymers</b>  Answers to questions from page 88-91	3. Research how a fractionating tower works
4. Quizzes 72 <b>Addition Polymers</b> and 73 <b>Cracking</b>  Answers to quizzes 72 and 73	5. Questions to match revision guide pages 92-94 <b>Crude Oil and Cracking</b>  Answers to questions from page 92-94	6. Research the properties of Gore-Tex polymers
7. Quizzes 74 <b>Gases in the Air</b> and 77 <b>Water Treatment</b>  Answers to quizzes 74 and 77	8. Questions to match revision guide pages 96-100 <b>Atmosphere and Water Treatment</b>  Answers to questions from page 96-100	9. Research how the process of flocculation works