



Science Combined (Chemistry) Homework - Year 10
Autumn 1 - Elements, Compounds & Mixtures

Retrieval		Rewarding
1. Quizzes 9 Atomic Structure and 10 Atomic Structure Answers to quizzes 9 and 10	2. HIGHER TIER Revision guide Questions to match revision guide pages 83-85 HIGHER TIER Revision guide Answers to questions from pages 83-85 FOUNDATION TIER Revision guide Questions to match revision guide pages 83-86 FOUNDATION TIER Revision guide Answers to questions from pages 83-86	3. Research how the work of Dobereiner and Newlands led to the development of the periodic table
4. Quizzes 17 Atomic Structure and 18 Electron arrangement Answers to quizzes 17 and 18	5. HIGHER TIER Revision guide Questions to match revision guide pages 86-87 HIGHER TIER Revision guide Answers to questions from pages 86-87	6. Research how isotopes can be used to identify water leaks



	<p>FOUNDATION TIER Revision guide Questions to match revision guide pages 87-88</p> <p>FOUNDATION TIER Revision guide Answers to questions from pages 87-88</p>	
<p>7. Quizzes 19 Ions and 20 Ionic Bonding Answers to quizzes 19 and 20</p>	<p>8. HIGHER TIER Revision guide Questions to match revision guide pages 88-89</p> <p>HIGHER TIER Revision guide Answers to questions from pages 88-89</p> <p>FOUNDATION TIER Revision guide Questions to match revision guide pages 89-91</p> <p>FOUNDATION TIER Revision guide Answers to questions from pages 89-91</p>	<p>9. Research how Carbon-14 isotopes can be used to carry out radiocarbon dating</p>



Science Combined (Chemistry) Homework - Year 10
Autumn 2 - Elements, Compounds & Mixtures

Retrieval	Reading	Rewarding
<p>1. Quizzes 21 Covalent Bonding and 22 Simple Covalent Substances</p> <p>Answers to quizzes 21 and 22</p>	<p>2. HIGHER TIER Revision guide Questions to match revision guide page 90 HIGHER TIER Revision guide Answers to questions from page 90 FOUNDATION TIER Revision guide Questions to match revision guide pages 92-93 FOUNDATION TIER Revision guide Answers to questions from pages 92-93</p>	<p>3. Research the potential medical uses of fullerenes</p>
<p>4. Quizzes 23 Covalent Substances and 24 Covalent Substances</p> <p>Answers to quizzes 23 and 24</p>	<p>5. HIGHER TIER Revision guide Questions to match revision guide pages 91-93 HIGHER TIER Revision guide Answers to questions from pages 91-93</p>	<p>6. Research how silver is used to give clothing antibacterial properties</p>



St Peter's Collegiate Academy
Part of Three Spires Trust



	<p>FOUNDATION TIER Revision guide Questions to match revision guide pages 94-96</p> <p>FOUNDATION TIER Revision guide Answers to questions from pages 94-96</p>	
<p>7. Quizzes 23 Covalent Substances and 24 Covalent Substances Answers to quizzes 23 and 24</p>	<p>8. HIGHER TIER Revision guide Questions to match revision guide page 94</p> <p>HIGHER TIER Revision guide Answers to questions from page 94</p> <p>FOUNDATION TIER Revision guide Questions to match revision guide page 97</p> <p>FOUNDATION TIER Revision guide Answers to questions from page 97</p>	<p>9. Research how polymers can be made to withstand the temperatures used in ovens and microwave ovens</p>



Science Combined (Chemistry) Homework - Year 10
Spring 1 - Elements, Compounds & Mixtures

Retrieval	Reading	Rewarding
<p>1. Quizzes 29 Relative Formula Mass and Mixed Quiz A</p> <p>Answers to quizzes 29 and Mixed Quiz A</p>	<p>2. HIGHER TIER Revision guide Questions to match revision guide pages 100-101 HIGHER TIER Revision guide Answers to questions from pages 100-101 FOUNDATION TIER Revision guide Questions to match revision guide pages 104-105 FOUNDATION TIER Revision guide Answers to questions from pages 104-105</p>	<p>3. Research the scientist Amadeo Avogadro</p>
<p>4. Quizzes 30 Word and Symbol Equations and Mixed Quiz B</p> <p>Answers to quizzes 30 and Mixed Quiz B</p>	<p>5. HIGHER TIER Revision guide Questions to match revision guide pages 103-104 HIGHER TIER Revision guide Answers to questions from pages 103-104</p>	<p>6. Research the SI systems of scientific units</p>



St Peter's Collegiate Academy

Part of Three Spires Trust



'Life in all its fullness'

	<p>FOUNDATION TIER Revision guide Questions to match revision guide pages 107-108</p> <p>FOUNDATION TIER Revision guide Answers to questions from pages 107-108</p>	
<p>7. Quiz 31 Masses and Mixed Quiz C</p> <p>Quizzes Answers to quizzes 31 and Mixed Quiz C</p>	<p>8. HIGHER TIER Revision guide Questions to match revision guide pages 105-106</p> <p>HIGHER TIER Revision guide Answers to questions from pages 105-106</p> <p>FOUNDATION TIER Revision guide Questions to match revision guide page 109</p> <p>FOUNDATION TIER Revision guide Answers to questions from page 109</p>	<p>9. Research what a kilogram is</p>



Science Combined (Chemistry) Homework - Year 10
Spring 2 - Elements, Compounds & Mixtures

Retrieval	Reading	Rewarding
<p>1. Quizzes 32 Moles and Mixed Quiz D</p> <p>Answers to quizzes 32 and Mixed Quiz D</p>	<p>2. HIGHER TIER Revision guide Questions to match revision guide pages 107-110 HIGHER TIER Revision guide Answers to questions from pages 107-110 FOUNDATION TIER Revision guide Questions to match revision guide page 110 FOUNDATION TIER Revision guide Answers to questions from page 110</p>	<p>3. Research what happens in an isothermic reaction and why it happens</p>
<p>4. Quizzes 33 Energy Changes and Mixed Quiz E</p> <p>Answers to quizzes 33 and Mixed quiz E</p>	<p>5. HIGHER TIER Revision guide Questions to match revision guide page 111 HIGHER TIER Revision guide Answers to questions from page 111</p>	<p>6. Research how self-heating cans and disposable hand warmers work</p>



	<p>FOUNDATION TIER Revision guide Questions to match revision guide page 111</p> <p>FOUNDATION TIER Revision guide Answers to questions from page 111</p>	
<p>7. Quiz 34 Bond Energies and Mixed Quiz F</p> <p>Quizzes Answers to quizzes 34 and Mixed Quiz F</p>	<p>8. HIGHER TIER Revision guide Questions to match revision guide page 112</p> <p>HIGHER TIER Revision guide Answers to questions from page 112</p> <p>FOUNDATION TIER Revision guide Questions to match revision guide page 116</p> <p>FOUNDATION TIER Revision guide Answers to questions from page 116</p>	<p>9. Research how reusable ice packs work</p>



Science Combined (Chemistry) Homework - Year 10
Summer 1 - Elements, Compounds & Mixtures

Retrieval	Reading	Rewarding
<p>1. Quizzes 40 Oxidation and Reduction and 41 Half equations</p> <p>Answers to quizzes 40 and 41</p>	<p>2. HIGHER TIER Revision guide Questions to match revision guide page 117 HIGHER TIER Revision guide Answers to questions from page 117 FOUNDATION TIER Revision guide Questions to match revision guide page 112 FOUNDATION TIER Revision guide Answers to questions from page 112</p>	<p>3. Research how indigestion remedies work</p>
<p>4. Quizzes 35 Acids and Alkalis and Mixed Quiz G</p> <p>Answers to quizzes 35 and Mixed quiz G</p>	<p>5. HIGHER TIER Revision guide Questions to match revision guide pages 113-114 HIGHER TIER Revision guide Answers to questions from pages 113-114</p>	<p>6. Research why farmers apply slaked lime to fields</p>



	<p>FOUNDATION TIER Revision guide Questions to match revision guide page 113</p> <p>FOUNDATION TIER Revision guide Answers to questions from page 113</p>	
<p>7. Quiz 36 Neutralisation and Mixed Quiz H Quizzes Answers to quizzes 36 and Mixed Quiz H</p>	<p>8. HIGHER TIER Revision guide Questions to match revision guide page 115</p> <p>HIGHER TIER Revision guide Answers to questions from page 115</p> <p>FOUNDATION TIER Revision guide Questions to match revision guide page 114</p> <p>FOUNDATION TIER Revision guide Answers to questions from page 114</p>	<p>9. Research how pickling foods in vinegar acts as a preservative</p>



Science Combined (Chemistry) Homework - Year 10
Summer 2 - Elements, Compounds & Mixtures

Retrieval	Reading	Rewarding
<p>1. Quizzes 37 Neutralisation and 38 Neutralisation</p> <p>Answers to quizzes 37 and 38</p>	<p>2. HIGHER TIER Revision guide Questions to match revision guide page 116 HIGHER TIER Revision guide Answers to questions from page 116 FOUNDATION TIER Revision guide Questions to match revision guide page 115 FOUNDATION TIER Revision guide Answers to questions from page 115</p>	<p>3. Research how nickel-plating works</p>
<p>4. Quizzes 39 Neutralisation and Mixed Quiz I</p> <p>Answers to quizzes 39 and Mixed quiz I</p>	<p>5. HIGHER TIER Revision guide Questions to match revision guide page 118 HIGHER TIER Revision guide Answers to questions from page 118</p>	<p>6. Research why steel is galvanised</p>



St Peter's Collegiate Academy
Part of Three Spires Trust



	<p>FOUNDATION TIER Revision guide Questions to match revision guide page 117</p> <p>FOUNDATION TIER Revision guide Answers to questions from page 117</p>	
<p>7. Quiz 42 Electrolysis and Mixed Quiz J</p> <p>Quizzes Answers to quizzes 42 and Mixed Quiz J</p>	<p>8. HIGHER TIER Revision guide Questions to match revision guide page 119</p> <p>HIGHER TIER Revision guide Answers to questions from page 119</p> <p>FOUNDATION TIER Revision guide Questions to match revision guide page 118</p> <p>FOUNDATION TIER Revision guide Answers to questions from page 118</p>	<p>9. Research how gold-plating works</p>