



Science - Separate - GCSE Chemistry Homework - Year 10
Autumn 1 - Elements, Compounds & Mixtures

| Retrieval | Reading | Rewarding |
|--|---|--|
| 1. Quizzes 9 Atomic Structure and 10 Atomic Structure Answers to quizzes 9 and 10 | 2. Questions to match revision guide pages 13-15 Answers to questions from pages 13-15 | 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. Questions to match revision guide pages 16-17 Answers to questions from pages 16-17 | 6. Research how isotopes can be used to identify water leaks |
| 7. Quizzes 19 Ions and 20 Ionic Bonding Answers to quizzes 19 and 20 | 8. Questions to match revision guide pages 18-19 Answers to questions from pages 18-19 | 9. Research how Carbon-14 isotopes can be used to carry out radiocarbon dating |



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Autumn 2 - Elements, Compounds & Mixtures

| Retrieval | Reading | Rewarding |
|--|---|--|
| 1. Quizzes 21 Covalent Bonding and 22 Simple Covalent Substances Answers to quizzes 21 and 22 | 2. Questions to match revision guide page 20 Answers to questions from page 20 | 3. Research the potential medical uses of fullerenes |
| 4. Quizzes 23 Covalent Substances and 24 Covalent Substances Answers to quizzes 23 and 24 | 5. Questions to match revision guide pages 21-24 Answers to questions from pages 21-24 | 6. Research how silver is used to give clothing antibacterial properties |
| 7. Quizzes 25 States and Structures and 26 States and Structures Answers to quizzes 25 and 26 | 8. Questions to match revision guide page 25 Answers to questions from page 25 | 9. Research how polymers can be made to withstand the temperatures used in ovens and microwave ovens |



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Spring 1 - Elements, Compounds & Mixtures

| Retrieval | Reading | Rewarding |
|--|--|--|
| 1. Quizzes 29 Relative Formula Mass and Mixed Quiz A Answers to Quiz 29 and Mixed Quiz A | 2. Questions to match revision guide page 31-32 Answers to questions from pages 31 and 32 | 3. Research the scientist Amadeo Avogadro |
| 4. Quizzes 30 Word and Symbol Equations and Mixed Quiz B Answers to Quiz 30 and Mixed Quiz B | 5. Questions to match revision guide pages 34-35 Answers to questions from pages 34-35 | 6. Research the SI systems of scientific units |
| 7. Quiz 31 Masses and Mixed Quiz C Quizzes Answers to Quiz 31 and Mixed Quiz D | 8. Questions to match revision guide page 36-37 Answers to questions from pages 36-37 | 9. Research what a kilogram is |



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Spring 2 - Elements, Compounds & Mixtures

| Retrieval | Reading | Rewarding |
|---|--|---|
| 1. Quizzes 32 Moles and Mixed Quiz D Answers to quizzes 32 and Mixed Quiz D | 2. Questions to match revision guide page 38-40 Answers to questions from pages 38-40 | 3. Research what happens in an isothermic reaction and why it happens |
| 4. Quizzes 33 Energy changes and Mixed Quiz E Answers to quizzes 33 and Mixed quiz E | 5. Questions to match revision guide page 41 Answers to questions from page 41 | 6. Research how self-heating cans and disposable hand warmers work |
| 7. Quiz 34 Bond energies and Mixed Quiz F Answers to quizzes 34 and Mixed Quiz F | 8. Questions to match revision guide page 42 Answers to questions from page 42 | 9. Research how reusable ice packs work |



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Summer 1 - Elements, Compounds & Mixtures

| Retrieval | Reading | Rewarding |
|---|---|--|
| 1. Quizzes 40 Oxidation and Reduction and 41 Half Equations Answers to quizzes 40 and 41 | 2. Questions to match revision guide page 47 Answers to questions from pages 47 | 3. Research how indigestion remedies work |
| 4. Quizzes 35 Acids and Alkalis and Mixed Quiz G Answers to quizzes 35 and Mixed quiz G | 5. Questions to match revision guide pages 43-44 Answers to questions from pages 43-44 | 6. Research why farmers apply slaked lime to fields |
| 7. Quiz 36 Neutralisation and Mixed Quiz H Answers to quiz 36 and Mixed Quiz H | 8. Questions to match revision guide page 45 Answers to questions from page 45 | 9. Research how pickling foods in vinegar acts as a preservative |



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Summer 2 - Elements, Compounds & Mixtures

| Retrieval | Reading | Rewarding |
|---|--|--------------------------------------|
| 1. Quizzes 37 Neutralisation and 38 Neutralisation Answers to quizzes 37 and 38 | 2. Questions to match revision guide page 46 Answers to questions from pages 46 | 3. Research how nickel-plating works |
| 4. Quizzes 39 Neutralisation and Mixed Quiz I Answers to quiz 39 and Mixed Quiz I | 5. Questions to match revision guide pages 48 Answers to questions from page 48 | 6. Research why steel is galvanised |
| 7. Quiz 42 Electrolysis and Mixed Quiz J Answers to quiz 42 and Mixed Quiz J | 8. Questions to match revision guide page 49 Answers to questions from page 49 | 9. Research how gold-plating works |