**Overview 2023-24**

|  | Topics taught | | | Summative Assessments | Link for SWA Resources | Home Learning Expectations | Extracurricular opportunities |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Year | Biology | Chemistry | Physics |
| 7 | * Cells and Organs * Reproduction * Ecology | * Particles and Solutions * Chemical Reactions * The Earth | * Energy * Speed and Forces * Space | 7 assessments:   * USP Y7 Baseline + Y7 Milestone * Reading Comprehension * How Science Works * 2 x End of Term + 1 x End of Year | Y7 and Y8 booklets:  <https://padlet.com/nbailey40/Y7andY8Booklets> | 4 x daily goals a week (or 1 weekly goal equivalent) on Tassomai (<https://www.tassomai.com>)  Using the parent dashboard feature you can monitor what they have done and encourage them to identify areas to revise.  Regular testing (either self-testing or with a family member) of the knowledge questions from the back of their booklets | Curiosity Cube  Science Week |
| Planet SOS | | |
| 8 | * Evolution and Genetics * Healthy Body * Photosynthesis and Respiration | * Energy in Reactions * Periodic Table * Acids and Alkalis | * Matter * Waves * Electricity and Magnetism | In each Y8 and Y9 there are 6 assessments:   * USP Y8 Milestone * Reading Comprehension * How Science Works * 2 x End of Term + 1 x End of Year | Faraday Challenge  Science Week |
| 9 | * Cells * Inheritance 1 * Transport across membranes * Digestive system * Exchange and transport in animals | * Atoms * Mixtures * Chemical Bonding and Reactions | * The Particle Model * Motion * Wave Properties * Energy Stores and Transfers | Y9 booklets:  <https://padlet.com/nbailey40/Y9booklets> | NextGen Samsung Competition  Science Week |
| 10 | * Plants * Bacteria and Medicine * Disease and Immunity * Inheritance 2 (Triple Only) * Ecosystems (Triple Only) | * Structure and Bonding * Extracting Resources and Sustainability * Materials (Triple Only) * Salts and Neutralisation Pt 1 (Triple Only) * Introduction to moles (Combined Only) * Acidic and Alkali Solutions (Combined Only) | * Electrical Circuits * Atomic Model and Nuclear Radiation * Forces and Newton’s Laws * Energy and Electricity in the home * Forces and their applications * Nuclear Physics (Triple Only) * Space (Triple Only) | 6 assessments:   * Maths in science * 2 x Extended Response Questions * 2 x End of Term   Y10 mocks (3 papers based majority on “paper 1 topics” in each Biology, Chemistry and Physics) | Y10 and Y11 Combined Science booklets:  <https://padlet.com/nbailey40/Y10andY11CombinedSci>  Y10 and Y11 Triple Science booklets:  <https://padlet.com/nbailey40/Y10andY11TripleSci>  How to revise in science:  <https://padlet.com/nbailey40/sciencerevision> | 4 x daily goals a week (or 1 weekly goal equivalent) on Tassomai (<https://www.tassomai.com>)  Using the parent dashboard feature you can monitor what they have done and encourage them to identify areas to revise.  Regular testing (either self-testing or with a family member) of the knowledge questions from the back of their booklets  Regular practicing of past paper questions (either teacher set or self-sought and also self-marked using resources on the revision padlet) | [GCSE Science Live!](https://sciencelive.org.uk/gcse/event_categories/cambridge/) – run in alternate years for both Y10 and Y11  Babraham Schools Day  Science Week |
| 11 | * Inheritance 2 (Combined Only) * Nervous System * Endocrine System * Hormones in reproduction * Variation and Evolution * Ecosystems (Combined Only) * Biodiversity (Combined Only) * Ecosystems & Biodiversity (Triple Only) | * Salts and Neutralisation Pt 2 (Triple Only) * Making Salts (Combined Only) * Organic Chemistry and Pollution (Combined Only) * Fuels and Pollution (Triple Only) * Organic Compounds (Triple Only) * Chemical Analysis (Triple Only) * Rate and extent of reactions | * Fields and EM waves * Forces and Momentum * Energy Changes * Applications of waves (Triple only) * Pressure (Triple only) * Electromagnetism | 3 internally-set assessments:   * Maths in science * Extended Response Questions * Y11 mocks (3 papers based majority on “paper 2 topics” in each Biology, Chemistry and Physics)   6 externally-set assessments (GCSE science exams):   * 2 x Biology * 2 x Chemistry * 2 x Physics |

**Summative Assessment Schedule 2023-24:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Term | Y7 | Y8 | Y9 | Y10 | Y11 |
| Autumn 1 | Baseline milestone assessment | Reading comprehension assessment | Reading comprehension assessment | Maths in science assessment | Maths in science assessment |
| Autumn 2 | Autumn assessment | Autumn assessment | Autumn assessment | Autumn assessment | ERQ assessment |
| Spring 1 | Reading comprehension assessment | HSW assessment | Y9 milestone assessment | ERQ assessment - with content knowledge support | Y11 mock |
| Spring 2 | Spring assessment | Spring assessment | Spring assessment | Spring assessment |  |
| Summer 1 | HSW assessment | Y8 milestone assessment | HSW assessment | ERQ assessment | GCSE EXAMS |
| Summer 2 | Y7 milestone assessment | End of Y8 assessment | End of Y9 assessment | Y10 mock | GCSE EXAMS |
| End of Y7 assessment |  |  |  |  |

**Curriculum Schedule 2023-24:**

**Y7-9**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 7 | | 8 | | 9 | |
|  | Teacher 1 | Teacher 2 | Teacher 1 | Teacher 2 | Teacher 1 | Teacher 2 |
| Autumn 1 | Energy | Cells and Organs | Energy in reactions | Evolution and Genetics | Atoms | The Particle Model |
| Cells |
| Autumn 2 | Particles and Solutions | Speed and Forces | Healthy Body | Mixtures | Motion |
| Matter | Wave properties |
| Spring 1 | Waves |
| Reproduction | Periodic Table | Energy stores and transfers | Inheritance 1 |
| Spring 2 | Chemical Reactions |
| Chemical bonding and reactions | Transport across membranes |
| Summer 1 | Space | Acids and Alkalis | Electricity and Magnetism | Digestive system |
| Ecology |
| Summer 2 | Exchange and transport in animals |
| The Earth | Planet SOS | Photosynthesis and Respiration |  |  |

**Y10-Y11 (Combined Science)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 10 (Combined) | | 11 (Combined) | | |
|  | Teacher 1 | Teacher 2 | Teacher 1 | Teacher 2 | Teacher 3 |
| Autumn 1 | Wave Properties | Exchange and transport in animals | Nervous System | Energy and Electricity in the home | Inheritance 2 |
| Structure and Bonding | Electrical Circuits | Endocrine System | Forces and their applications | Making salts |
| Autumn 2 | Hormones in reproduction | Fields and EM Waves |
| Extracting Resources and Sustainability | Plants | Variation and Evolution | Organic Chemistry and Pollution |
| Spring 1 | Forces and Momentum |
| Atomic model and Radiation |
| Spring 2 | Ecosystems | Energy Changes |
| Bacteria and Medicine | Rate and extent of reactions |
| Summer 1 | Disease and Immunity |  | Electromagnetism |  |
| Introduction to moles | Biodiversity | |
| Summer 2 | Forces and Newton's Laws |  | | |
| Acidic and Alkali solutions | Energy and Electricity in the home |

**Y10-Y11 (Triple Science)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 10 (Triple) | | | 11 (Triple) | | |
|  | Biology | Chemistry | Physics | Biology | Chemistry | Physics |
| Autumn 1 | Exchange and transport in animals | Structure and Bonding | Wave Properties | Nervous System | Salts and Neutralisation P2 | Fields and EM Waves |
| Plants | Extracting Resources and Sustainability | Electrical Circuits | Endocrine System | Fuels and Pollution | Forces and Momentum |
| Autumn 2 | Hormones in reproduction | Organic Compounds |
| Bacteria and Medicine | Atomic Model | Variation and Evolution | Energy changes |
| Spring 1 | Nuclear Radiation | Applications of waves |
| Disease and Immunity | Materials | Forces and Newton's Laws | Chemical Analysis |
| Spring 2 | Salts and Neutralisation P1 | Ecosystems & Biodiversity | Pressure |
| Energy and Electricity in the home | Rate and Extent of Reactions |
| Summer 1 | Inheritance 2 | Forces and their applications |  | | Electromagnetism |
| Nuclear Physics |  | | |
| Summer 2 | Ecosystems | Space |
|  |  |