**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 CubeScience 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 ChallengeScience 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 CompetitionScience 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 bookletsRegular 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 Y11Babraham Schools DayScience 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 |
|   |   |