**Overview 2024-25**

|  | 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
* Skills in Science x 2
* 2 x End of Term + 1 x End of Year
 | <https://padlet.com/nbailey40/Y7> <https://padlet.com/nbailey40/Y8>  | 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 bookletsAny revision homework which is set | 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
* Skills in Science x 2
* 2 x End of Term + 1 x End of Year
 | Faraday ChallengeScience Week |
| 9 | * Cells
* Inheritance and Variation
* Transport systems
* Digestion
* Organisation and Health
 | * Pure Substances and Mixtures
* Atomic Structure
* Chemical Properties of Metals and Non-Metals
* Acidic and Alkali Solutions
* Energy Changes during reactions
 | * The Particle Model
* Motion
* Forces and Newton’s Laws
* Energy Stores and Transfers
* Electrical Circuits
 | <https://padlet.com/nbailey40/science_resources> and you will find separate padlets for biology, chemistry and physicsHow to revise in science:<https://padlet.com/nbailey40/sciencerevision>  | NextGen Samsung CompetitionScience Week |
| 10 | * Organisation in Plants
* Organisation and Health
* Bioenergetics
* Disease and Immunity
* Inheritance 2
* Biodiversity and adaptations
 | * Structure and Bonding
* Extracting Resources and Sustainability
* Introduction to moles
* Making Salts
* Quantitative and Qualitative Analysis (Triple Only)
* Materials (Triple Only)
 | * Forces and Newton’s Laws
* Electrical Circuits
* Atomic Model and Nuclear Radiation (Combined Only)
* Nuclear Physics (Triple Only)
* Energy and Electricity in the home
* Energy Changes
* Space (Triple Only)
 | 6 assessments:* Maths in science
* 1 x Required Practicals Assessment
* 1 x mini-paper 1
* 2 x End of Term

+ Y10 mocks (3 papers based majority on “paper 1 topics” in each Biology, Chemistry and Physics) | 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.1 x set of of PPQs a week (on rotation between Bio/Chem/Phys)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)Any revision homework which is set | [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
* Nervous System and homeostasis
* Hormonal Control System
* Plant Hormones (Triple only)
* Evolution and Variation
* Impact of humans
* Biodiversity and Adaptations (Combined 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
 | * Electricity in the home (combined only)
* Forces and their applications (Combined only)
* Fields and EM waves
* Forces and Momentum
* Energy Changes
* Applications of waves (Triple only)
* Pressure (Triple only)
* Electromagnetism
 | 3 internally-set assessments:* 1 x mini paper 1
* 1 x Required Practicals Assessment
* 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 2024-25:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Term | Y7 | Y8 | Y9 | Y10 | Y11 |
| Autumn 1 | Baseline milestone assessment | Skills in science | Skills in science | Maths in science assessment | Mini Paper 1 |
| Autumn 2 | Autumn assessment | Autumn assessment | Autumn assessment | Autumn assessment | Required practical Assessment |
| Spring 1 | Skills in science | Skills in science | Skills in science | Required practical Assessment | Y11 mock |
| Spring 2 | Spring assessment | Spring assessment | Y9 milestone assessment | Spring assessment |  |
| Summer 1 | Skills in Science | Y8 milestone assessment | Summer assessment | Mini Paper 1  | 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 2024-25:**

**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 | Pure Substances and Mixtures | The Particle Model |
| Cells |
| Autumn 2 | Particles and Solutions | Speed and Forces | Healthy Body | Atomic Structure | Motion |
| Matter | Forces and Newton’s Laws |
| Spring 1 | Waves |
| Reproduction | Periodic Table | Chemical Properties of Metals and Non Metals | Inheritance and Variation |
| Spring 2 | Chemical Reactions |
| Energy Stores | Transport systems |
| Summer 1 | Space | Acids and Alkalis | Electricity and Magnetism | Electrical Circuits | Digestion |
| Ecology |
| Summer 2 | Energy changes in chemical reactions | Organisation and Health |
| The Earth | Planet SOS | Photosynthesis and Respiration |  |  |

**Y10**

|  |  |  |
| --- | --- | --- |
|  | 10 (Triple) | 10 (Combined) |
|  | Teacher 1 | Teacher 2 | Teacher 3 | Teacher 1 | Teacher 2 | Teacher 3 |
| Autumn 1 | Oragnisation in plants | Forces and Newton's Laws | Structure and Bonding | Organisation in Plants | Forces and Newton's Laws | Structure and Bonding |
| Organisation and Health | Electrical Circuits |
| Autumn 2 | Bioenergetics | Extracting Resources and Sustainability | Organisation and health | Electrical Circuits | Extracting Resources and Sustainability |
| Disease and Immunity | Nuclear Physics | Bioenergetics |
| Spring 1 | Inheritance 2 | Introduction to moles | Disease and Immunity | Atomic Structure and Nuclear Radiation |
| Spring 2 | Energy and Electricity in the home | Making Salts |
| Biodiversity and Adaptations | Inheritance 2 | Energy and Electricity in the home | Introduction to moles |
| Summer 1 | Energy Changes | Quantitative and Qualitative Analysis |
| Biodiversity and Adaptations | Energy changes | Making Salts |
| Summer 2 |   | Materials |
|   | Space |

**Y11**

|  |  |  |
| --- | --- | --- |
|  | 11 (Triple) | 11 (Combined) |
|  | Teacher 1 | Teacher 2 | Teacher 3 | Teacher 1 | Teacher 2 | Teacher 3 |
| Autumn 1 | Inheritance 2 | Energy changes | Fuels and Pollution | Inheritance 2 | Electricity in the home | Making Salts |
| Nervous system and homeostasis | Pressure | Nervous system and homeostasis | Forces and their applications |
| Autumn 2 | Hormonal Control Systems | Fields and EM waves | Organic Compounds | Hormonal Control Systems | Fields and EM waves |
| Plant Hormones | Forces and Momentum | Organic Chemistry |
| Spring 1 | Evolution and Variation | Applications of waves | Chemical Analysis | Evolution and Variation | Forces and Momentum |
| Spring 2 | Electromagnetism | Rate and Extent of Reactions | Impact of humans | Energy changes | Rate and Extent of Reactions |
| Impact of humans | Biodiversity and Adaptations | Electromagnetism |   |
| Summer 1 |   |   |   |   |
|   |   |   |   |