BOSTON HIGH SCHOOL

# LEADING LEARNING TOGETHER

COMMITMENT, OPPORTUNITY, DISCIPLINE AND EXCELLENCE

Biology Curriculum Overview - Academic Year 2025-2026

| Year | Term 1 | Term 2 | Term 3 | Term 4 | Term 5 | Term 6 |
|---|---|---|---|---|---|---|
| 7 | Working Scientifically | Forces | Atoms, elements and compounds | Body Systems | Light | Acids and Alkalis |
| | Particles | Cells | Sound | Reactions | Reproduction | Space |
| | Note: Some topics will be taught at different times due to split classes and staff working days, however all students will cover each topic above throughout the year. | | | | | |
| 8 | Working Scientifically | The Periodic Table | Biological Processes | Motion and Pressure | Metals and Other Materials | Inheritance |
| | Health and Lifestyle | Energy | Separation Techniques | Ecosystems and Adaptations | Electricity and Magnetism | The Earth |
| | Note: Some topics will be taught at different times due to split classes and staff working days, however all students will cover each topic above throughout the year. | | | | | |
| 9 | Cells, Microscopy and diffusion | Osmosis and active transport | Cell cycle and stem cells | Animal Organisation: Digestion and Enzymes | Animal Organisation: gas exchange and transport | Animal Organisation: Heart |
| 10 | Plant Organisation and Bioenergetics: photosynthesis | Bioenergetics: Photosynthesis and Respiration | Bioenergetics: Respiration and Metabolism, Infection and Response | Infection and Response | Inheritance and Evolution | Inheritance and Evolution |
| 11 | Inheritance and evolution<br>Separates: Ecology<br>Trilogy: Homeostasis and response | Separates: Ecology<br>Trilogy: Homeostasis and response | Separates: Ecology and Homeostasis and response<br>Trilogy: Ecology | Separates: Homeostasis and response<br>Trilogy: Ecology and Revision | Separates: Homeostasis and response<br>Trilogy: Revision | REVISION |
| 12 | Ions, Water, Carbohydrates and Lipids<br>Cells, and Cell structure<br>Transport across membranes | Proteins and Enzymes Transport across membranes and Mitosis | Nucleic acids, ATP, Digestion and Absorption, DNA, Protein Synthesis, Cell recognition and SA:V ratio | Genetic diversity and Adaptations, Gas exchange, Mass transport | Species, Biodiversity, Mass transport | Respiration, Energy and ecosystems, and Essay Q introduction |
| 13 | Photosynthesis, and Organisms respond to changes in their internal and external environments | Nervous coordination<br>And Genetics, populations, evolution and ecosystems | Muscle contraction, Homeostasis,<br>Control of gene expression | Homeostasis<br>Control of gene expression | | |

NOTE: The timings may vary due to the needs of individual students and classes (especially KS3 due to classes having shared teachers) but it is envisaged that all classes will cover the curriculum above.