

# Year 13 Long Term Scheme of Learning 2026-2027

## Subject: Biology

### National curriculum or specification coverage

3.5 Energy transfers in and between organisms  
 3.6: Organisms respond to changes in their internal and external environments  
 3.7: Genetics, populations, evolution and ecosystems  
 3.8: The control of gene expression

| Date (w/b) | Exams/Assessments | Learning Intentions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Core Task/ Assessments                                                                           |
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| 31/08/26   |                   | <b><u>Ecology Required practical</u></b><br><b><u>3.5.2 Respiration</u></b> <ul style="list-style-type: none"> <li>Explain ATP production in aerobic and anaerobic respiration.</li> <li>Describe glycolysis, including glucose phosphorylation, pyruvate production, ATP and reduced NAD.</li> <li>Compare anaerobic respiration (ethanol/lactate production and NAD regeneration) with aerobic respiration.</li> <li>Describe aerobic respiration: link reaction, Krebs cycle and oxidative phosphorylation (chemiosmosis and ATP synthase).</li> <li>Explain how lipids and amino acids enter respiration.</li> <li><b>Required Practical 9:</b> Investigate the effect of a named variable on the respiration rate of single-celled organisms.</li> </ul> <b><u>3.5.1 Photosynthesis</u></b> <ul style="list-style-type: none"> <li>Explain the light-dependent reaction, including photoionisation, photolysis, ATP and reduced NADP production, and chemiosmosis.</li> <li>Explain the Calvin cycle, including carbon fixation by Rubisco, GP reduction, RuBP regeneration and triose phosphate production.</li> </ul> | <b><u>3.6.1 Survival and response</u></b><br><b><u>3.6.2 Nervous coordination</u></b> <ul style="list-style-type: none"> <li>Nerves review from last year</li> <li>Nerves test</li> </ul> <b><u>3.6.3 Muscles</u></b> <ul style="list-style-type: none"> <li>Understand that muscles act in antagonistic pairs</li> <li>Describe gross and microscopic structure of skeletal muscle. The ultrastructure of a myofibril</li> <li>Describe the roles of actin, myosin, calcium ions and ATP in myofibril contraction</li> <li>Explain the roles of calcium ions and tropomyosin in the cycle of actinomyosin bridge formation</li> <li>Describe the roles of ATP and phosphocreatine in muscle contraction</li> <li>Describe the structure, location and general properties of slow and fast skeletal muscle fibres</li> <li>Muscles test</li> </ul> <b><u>Ecosystems</u></b> <ul style="list-style-type: none"> <li>Define the terms population, community, ecosystem and habitat.</li> <li>Understand that a species occupies a niche that is determined by adaptations to abiotic and biotic factors.</li> </ul> | <b><u>Respiration test</u></b><br><b><u>Photosynthesis test</u></b><br><b><u>Nerves test</u></b> |
| 07/09/26   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  |
| 14/09/26   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  |
| 21/09/26   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  |
| 28/09/26   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  |
| 05/10/26   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  |
| 12/10/26   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  |
| 19/10/26   | Y13               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  |

# Year 13 Long Term Scheme of Learning 2026-2027

## Subject: Biology

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|          |     | <ul style="list-style-type: none"><li>Identify limiting factors affecting photosynthesis and evaluate agricultural methods to overcome them.</li><li><b>Required Practical 7:</b> Use chromatography to investigate photosynthetic pigments.</li><li><b>Required Practical 8:</b> Investigate the effect of a named factor on dehydrogenase activity in chloroplast extracts.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <ul style="list-style-type: none"><li>Understand that Ecosystem carrying capacity is influenced by:<ul style="list-style-type: none"><li>- abiotic factors</li><li>- interactions between organisms, including interspecific and intraspecific competition and predation.</li></ul></li><li>Estimate population size using:<ul style="list-style-type: none"><li>- randomly placed quadrats or belt transects for slow-moving or non-motile organisms</li><li>- mark-release-recapture for motile organisms.</li></ul></li><li>Explain the assumptions of the mark-release-recapture method.</li></ul>                                                                                                                                                                                                                               |                         |
| 26/10/26 |     | HALF TERM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |
| 02/11/26 |     | <ul style="list-style-type: none"><li>Farming and cycles (Self study review)</li></ul> <b>3.7.1 Inheritance</b> <ul style="list-style-type: none"><li>Describe the genotype as the genetic constitution of an organism</li><li>Describe the phenotype as the expression of this genetic constitution and its interaction with the environment</li><li>Understand there may be many alleles of a single gene</li><li>Understand that alleles may be dominant, recessive or codominant</li><li>Understand that, in a diploid organism, the alleles at a specific locus may be either homozygous or heterozygous</li><li>The use of fully labelled genetic diagrams to interpret, or predict, the results of:<ul style="list-style-type: none"><li>- monohybrid and dihybrid crosses involving dominant, recessive and codominant alleles</li></ul></li></ul> | <ul style="list-style-type: none"><li>Describe primary succession from pioneer species to climax community.</li><li>Explain how succession changes abiotic conditions, allowing new species to establish, increasing biodiversity and replacing earlier species.</li><li>Explain how habitat conservation often requires management of succession.</li><li>Understand the balance between human needs, conservation and sustainable resource management.</li><li>Explain why ecosystems are dynamic.</li><li>Evaluate evidence relating to the conservation of species and habitats, including conflicting data.</li><li>Calculate population size using the mark-release-recapture method.</li><li><b>Required Practical 12:</b> Investigate the effect of a named environmental factor on the distribution of a species.</li></ul> | <b>Muscles test</b>     |
| 09/11/26 |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |
| 16/11/26 |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |
| 23/11/26 |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |
| 30/11/26 |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |
| 07/12/26 |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |
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| 21/12/26 |     | CHRISTMAS HOLIDAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |
| 28/12/26 |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |
| 04/01/27 |     | <ul style="list-style-type: none"><li>Solve genetic problems, including crosses involving sex-linkage, autosomal linkage, multiple alleles and epistasis</li><li>Use of the chi-squared (X2) test to compare the goodness of fit of observed phenotypic ratios with expected ratios</li><li>The concepts of gene pool and allele frequency</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>3.6.2 Homeostasis</b> <ul style="list-style-type: none"><li>Explain how homeostasis maintains stable internal conditions through physiological control systems.</li><li>Describe the importance of regulating core temperature, blood pH and blood glucose concentration.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Inheritance test</b> |
| 11/01/27 |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |
| 18/01/27 |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |
| 25/01/27 |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |
| 01/02/27 |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |
| 08/02/27 | Y13 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |

# Year 13 Long Term Scheme of Learning 2026-2027

## Subject: Biology

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|          |  | <ul style="list-style-type: none"> <li>The Hardy-Weinberg principle provides a mathematical model, which predicts that allele frequencies will not change from generation to generation. The conditions under which the principle applies</li> <li>The frequency of alleles, genotypes and phenotypes in a population can be calculated using the Hardy-Weinberg equation: <math>p^2 + 2pq + q^2 = 1</math> where p is the frequency of one (usually the dominant) allele and q is the frequency of the other (usually recessive) allele of the gene</li> <li>Inheritance test</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>Explain negative feedback and interpret examples of negative and positive feedback.</li> <li>Describe factors affecting blood glucose and the liver's role in glycogenesis, glycogenolysis and gluconeogenesis.</li> <li>Explain the actions of <b>insulin</b>, <b>glucagon</b> and <b>adrenaline</b> in regulating blood glucose.</li> <li>Describe the second messenger model of glucagon and adrenaline action (adenylate cyclase, cAMP and protein kinase).</li> <li>Compare the causes and management of Type I and Type II diabetes.</li> <li>Evaluate evidence relating to the roles of health advice and the food industry in rising diabetes incidence.</li> </ul>                                                                                                                                                                                                                                                                                                                                     |                                                  |
| 15/02/27 |  | HALF TERM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |
| 22/02/27 |  | <b>3.7.3 - Variation and Evolution</b> <ul style="list-style-type: none"> <li>Understand that species exist as one or more populations.</li> <li>Describe a population as a group of the same species living in the same area which can potentially interbreed.</li> <li>Explain that phenotypic variation is caused by genetic and environmental factors. Mutation is the main source of genetic variation, with meiosis and random fertilisation increasing variation.</li> <li>Explain that natural selection occurs through predation, disease and competition, leading to differential survival and reproduction.</li> <li>Understand that individuals with advantageous phenotypes reproduce more successfully, increasing favourable allele frequencies.</li> <li>Understand stabilising, directional and disruptive selection.</li> <li>Evolution is a change in allele frequencies within a population.</li> <li>Understand that isolation can lead to genetic differences, reproductive isolation and the formation of new species through allopatric and sympatric speciation.</li> </ul> | <b>Control of Blood Water Potential</b> <ul style="list-style-type: none"> <li><b>Required Practical 11:</b> Produce a glucose dilution series, use colorimetry to create a calibration curve, and determine the glucose concentration of an unknown "urine" sample.</li> <li>Understand the roles of the <b>hypothalamus</b>, <b>posterior pituitary</b> and <b>ADH</b> in osmoregulation.</li> <li>Know the structure and function of the <b>nephron</b>, including: <ul style="list-style-type: none"> <li>Formation of glomerular filtrate.</li> <li>Reabsorption of glucose and water in the proximal convoluted tubule.</li> <li>Sodium ion gradient in the medulla by the loop of Henle.</li> <li>Water reabsorption in the distal convoluted tubule and collecting duct.</li> </ul> </li> </ul> <b>3.8.3.4 Gene Technology</b> <ul style="list-style-type: none"> <li><b>Understand that recombinant DNA technology</b> transfers DNA between organisms, allowing expression in transgenic cells due to the universal genetic code.</li> </ul> | <b>Homeostasis test</b><br><b>Variation test</b> |
| 01/03/27 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |
| 08/03/27 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |
| 15/03/27 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |
| 22/03/27 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |

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|          |  | <ul style="list-style-type: none"> <li>Genetic drift changes allele frequencies mainly in small populations.</li> <li>Be able to explain: <ul style="list-style-type: none"> <li>Causes of phenotypic variation.</li> <li>Why genetic drift mainly affects small populations.</li> </ul> </li> <li>Describe how natural selection and isolation produce new species.</li> <li>How evolution has produced biodiversity.</li> <li>Variation test.</li> </ul> <p><b>3.8.3.4 Gene Technology</b></p> <ul style="list-style-type: none"> <li>Understand that most DNA is non-coding.</li> <li>Describe the different levels of potency in cells</li> <li>Evaluate the use of stem cells in medicine.</li> <li>Gene expression is regulated through transcription and translation.</li> <li>Understand the role of transcription factors.</li> <li>Understand the role of tags in epigenetics</li> <li>Understand the role of epigenetics in disease, especially cancer.</li> <li>RNA interference (RNAi) can inhibit translation.</li> <li>Compare benign and malignant tumours.</li> <li>Understand tumour suppressor genes, oncogenes, abnormal methylation and oestrogen's role in some breast cancers.</li> <li>Evaluate evidence linking genetic and environmental factors to cancer.</li> <li>Explain how knowledge of oncogenes and tumour suppressor genes aids cancer prevention and treatment.</li> <li>Understand that complex organisms have non-coding DNA and regulatory genes make predicting the proteome more difficult.</li> <li>Sequencing methods continue to improve and become increasingly automated.</li> </ul> | <ul style="list-style-type: none"> <li>Explain that DNA fragments can be produced by: <ul style="list-style-type: none"> <li>Reverse transcriptase (mRNA → cDNA).</li> <li>Restriction enzymes.</li> <li>Gene machines.</li> </ul> </li> <li>Describe DNA amplification methods: <ul style="list-style-type: none"> <li><b>PCR</b> (in vitro).</li> <li>Culturing transformed host cells (in vivo).</li> </ul> </li> <li>Understand: <ul style="list-style-type: none"> <li>Promoters and terminators.</li> <li>Restriction endonucleases, ligase, vectors and transformation.</li> <li>Marker genes to identify GM cells (specific marker genes not required).</li> </ul> </li> <li>Be able to: <ul style="list-style-type: none"> <li>Interpret recombinant DNA technology.</li> <li>Evaluate its ethical, financial and social impacts in medicine, agriculture and industry.</li> </ul> </li> <li>Relate recombinant DNA technology to gene therapy.</li> <li>Understand that DNA differences can be used for <b>identification</b> and diagnosis of inherited conditions.</li> <li>Understand the use of <b>labelled DNA probes</b> and DNA hybridisation to:</li> <li>Explain why we screen for inherited disorders, drug responses and health risks.</li> <li>Evaluate the use of genetic screening in <b>genetic counselling</b> and <b>personalised medicine</b>.</li> </ul> |                       |
| 29/03/27 |  | EASTER BREAK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |
| 05/04/27 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |
| 12/04/27 |  | <ul style="list-style-type: none"> <li>Essay skills</li> <li>Revision</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <ul style="list-style-type: none"> <li>Describe the use of genetic fingerprinting in the fields of forensic science, medical diagnosis, animal and plant breeding</li> <li>Understand the importance of PCR and VNTRs in genetic fingerprinting</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>External exams</b> |
| 19/04/27 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |
| 26/04/27 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |
| 03/05/27 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |



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| 10/05/27 |  |           | <ul style="list-style-type: none"><li>• Be able to explain the biological principles that underpin genetic fingerprinting techniques</li><li>• Be able to interpret data showing the results of gel electrophoresis to separate DNA fragments</li><li>• Be able to explain why scientists might use genetic fingerprinting in the fields of forensic science, medical diagnosis, animal and plant breeding</li><li>• Gene Technology test</li></ul> |  |
| 17/05/27 |  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| 24/05/27 |  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| 31/05/27 |  | HALF TERM |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| 07/06/27 |  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| 14/06/27 |  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| 21/06/27 |  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| 28/06/27 |  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| 05/07/27 |  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| 12/07/27 |  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |