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| Subject: **Biology GCSE -** **AQA Specification – National Curriculum** |
| Group/ Year: **11** |

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| Autumn 1 - Module 5  VARIATION AND EVOLUTION  CONTINUED, ECOLOGY | Autumn 2  ECOLOGY | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| The development of understanding of genetics and evolution   * Theory of evolution * Speciation * Understanding of genetics * Evidence for evolution * Fossils * Extinction * Resistant bacteria   *Assessment*  End of topic test  Classification of living organisms   * Classification   New module: ECOLOGY  Adaptations, interdependence and competition   * Communities * Abiotic factors * Biotic factors * Adaptations   *Assessment*  End of Term test | Organisation of an ecosystem   * Levels of organisation   Required practical 7: Investigate the population size of a common species in a habitat   * How materials are cycled * Decomposition   Required practical 8: Investigate the effect of a factor on the rate of decay  *Assessment*  End of topic test  Biodiversity and the effect of human interaction on ecosystems   * Biodiversity * Waste management * Land use * Deforestation * Global warming * Maintaining biodiversity   *Assessment*  End of Term test  November mock examinations | Trophic levels in an ecosystem   * Trophic levels * Pyramids of biomass * Transfer of biomass   *Assessment*  End of topic test  Food production   * Factors affecting food security * Farming techniques * Sustainable fisheries * Role of biotechnology   *Assessment*  End of topic test  Required Practicals   * Using a light microscope * Food tests to identify food groups * Investigating the effect of antiseptics and antibiotics on bacterial growth * Investigating the effect of Ph on the rate of reaction of amylase enzyme * Investigate the effect of light on newly germinated seedlings   *Assessment*  End of term practical assessment | Required Practicals continued   * Investigate the effect of gravity on newly germinated seedlings * Investigate human reaction time * Measure the population size of a common species in a habitat * Investigate the effect of temperature on the rate of decay of fresh milk * Investigate the effect of a range of concentrations of salt or sugar solutions on the mass of plant tissue * Investigate the rate of light intensity on the rate of photosynthesis   REVISION for mock examination  *Assessment*  End of Term test | REVISION FOR PAPER 1 BIOLOGY GCSE  **Paper 1 exam** | REVISION FOR PAPER 2 BIOLOGY GCSE  **Paper 2 exam** |