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

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| Autumn 1 - Module 5 VARIATION AND EVOLUTIONCONTINUED, ECOLOGY | Autumn 2ECOLOGY | 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 testClassification of living organisms* Classification

New module: ECOLOGYAdaptations, 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 testBiodiversity and the effect of human interaction on ecosystems* Biodiversity
* Waste management
* Land use
* Deforestation
* Global warming
* Maintaining biodiversity

*Assessment*End of Term testNovember mock examinations | Trophic levels in an ecosystem* Trophic levels
* Pyramids of biomass
* Transfer of biomass

*Assessment*End of topic testFood production* Factors affecting food security
* Farming techniques
* Sustainable fisheries
* Role of biotechnology

*Assessment*End of topic testRequired 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** |