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| **GCSE Combined Science: Biology and GCSE Biology: Specification topics with video links and exam Qs  – B5, B6 and B7 – Paper 2** |  |

* Cognito playlist: <https://youtube.com/playlist?list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g>
* FuseSchool playlist: <https://youtube.com/playlist?list=PLW0gavSzhMlQYSpKryVcEr3ERup5SxHl0>
* Malmesbury Education playlist for Required Practicals: <https://youtube.com/playlist?list=PLAd0MSIZBSsHv1pioWRdg-pZCWTo84cdP>

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|  | Video links | Exam questions |
| B5 | **Homeostasis and response**   * Homeostasis - [GCSE Biology - Homeostasis #38 - YouTube](https://www.youtube.com/watch?v=XMsJ-3qRVJM&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=40) * The human nervous system – structure and function - [GCSE Biology - Nervous System and Reflex Arc #39 - YouTube](https://www.youtube.com/watch?v=HiuXfbwND9s&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=41) * Required practical 7 – reaction times - [Reaction Time - GCSE Science Required Practical - YouTube](https://www.youtube.com/watch?v=Ws5qVXYHRnQ&list=PLAd0MSIZBSsHv1pioWRdg-pZCWTo84cdP&index=9) * The human nervous system – the brain (GCSE Biology only) - [GCSE Biology - The Brain #70 - YouTube](https://www.youtube.com/watch?v=jvIr7b0roYI&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=72) * The human nervous system – the eye (GCSE Biology only) - [GCSE Biology - How the Eye Works (Part 1) - Structure of the Eye & Iris Reflex #71 - YouTube](https://www.youtube.com/watch?v=9SGAicn9rXY&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=73) and [GCSE Biology - How the Eye Works (Part 2) - Accommodation #72 - YouTube](https://www.youtube.com/watch?v=-BqvOucCTYg&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=74) * The human nervous system – Control of body temperature (GCSE Biology only) - [GCSE Biology - How We Control Our Body Temperature #73 - YouTube](https://www.youtube.com/watch?v=IGsQi0JZUTw&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=75) * Hormonal coordination in humans – human endocrine system - [GCSE Biology - Endocrine System & Hormones #40 - YouTube](https://www.youtube.com/watch?v=BvpPCn1rwsw&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=42) * Hormonal coordination in humans – control of blood glucose concentration - [GCSE Biology - Control of Blood Glucose Concentration #41 - YouTube](https://www.youtube.com/watch?v=OHrX3X3LGzI) and [GCSE Biology - Type 1 vs Type 2 Diabetes - What is Diabetes and How to Treat It #42 - YouTube](https://www.youtube.com/watch?v=bFnO8Uc9gjQ&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=44) * Hormonal coordination in humans – maintaining water and nitrogen balance in the body (GCSE Biology only) - [Biology - How the Kidneys Work - (Kidneys Part 1/3) #74 - YouTube](https://www.youtube.com/watch?v=gWnIFIdDeto&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=76) and [Biology - Structure of the Kidneys - (Kidneys Part 2/3) #75 - YouTube](https://www.youtube.com/watch?v=sRZ7VOeIr6g&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=77) and [Biology - Kidney Failure (Kidneys Part 3/3) #76 - YouTube](https://www.youtube.com/watch?v=zg1GZ0kj878&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=78) * Hormonal coordination in humans – hormones in human reproduction - [GCSE Biology - The Menstrual Cycle & Puberty #43 - YouTube](https://www.youtube.com/watch?v=Gf_WLrXAqIA) * Hormonal coordination in humans – contraception - [GCSE Biology - Contraception #44 - YouTube](https://www.youtube.com/watch?v=kMY-v0F6bX0) * Hormonal coordination in humans – the use of hormones to treat infertility - [GCSE Biology - What is IVF? How Does IVF Work and What Are The Risks? IVF Explained #45 - YouTube](https://www.youtube.com/watch?v=fOfFr9Q0WWA) * Hormonal coordination in humans – negative feedback * Plant hormones – control and coordination (GCSE Biology only) - [Plant Hormones - Tropisms & Auxins #77 - YouTube](https://www.youtube.com/watch?v=rKHIfsHX1aA&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=79) * Plant hormones – use of plant hormones (GCSE Biology only) - [GCSE Biology - Plant Hormones - Uses of Auxin, Gibberellin and Ethene #78 - YouTube](https://www.youtube.com/watch?v=0GTVp0iaes8&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=80) * Required practical 8 – tropisms - [GCSE Science Revision Biology "Required Practical 8: Plant Responses" (Triple) - YouTube](https://www.youtube.com/watch?v=fEo21LbnJJM)   Primrose Kitten B5 Summary and questions:  [The whole of AQA HOMEOSTASIS and RESPONSE. 9-1 GCSE biology or combined science revision for paper 2 - Bing video](https://www.bing.com/videos/search?q=primrose+kitten+B4+bienergetics+youtube&&view=detail&mid=2048D127527EF17E66D32048D127527EF17E66D3&&FORM=VDRVRV)  [HOMEOSTASIS AND RESPONSE. AQA B2 Topic 5 Quick Fire Questions. 9-1 GCSE Biology or Combined Science - Bing video](https://www.bing.com/videos/search?q=primrose+kitten+B4+bienergetics+youtube&&view=detail&mid=C9B92B3A1E6C5F65DEA4C9B92B3A1E6C5F65DEA4&&FORM=VDRVRV) | Human nervous system and reaction times Qs:  <https://bebieif.exampro.net/>    B4 GCSE Biology only Qs on the brain, eyes and thermoregulation:  <https://toeocym.exampro.net/>    Endocrine system and control of blood glucose Qs:  <https://menodug.exampro.net/>    Kidney function and treatment of kidney failure Qs:  <https://mageaio.exampro.net/>    Hormones in human reproduction, contraception and treating infertility Qs:  <https://xabiyin.exampro.net/>    B5 GCSE Biology only Qs on plant hormones:  <https://eewuruz.exampro.net/> |
| B6 | **Inheritance, variation and evolution**   * Reproduction – sexual and asexual reproduction - [GCSE Biology - Sexual vs Asexual Reproduction - What is Asexual Reproduction? #46 - YouTube](https://www.youtube.com/watch?v=LgLkt02Hl9s&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=48) * Reproduction – meiosis - [GCSE Biology - Meiosis #47 - YouTube](https://www.youtube.com/watch?v=micUPynqx9k) * Reproduction – advantages and disadvantages of sexual and asexual reproduction (GCSE Biology only) - [GCSE Biology - Pros and Cons of Sexual and Asexual Reproduction (Part 2) #82 - YouTube](https://www.youtube.com/watch?v=mtYCd2LAr_w&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=84) * Reproduction – DNA and the genome (GCSE Biology only) - [GCSE Biology - DNA Part 1 - Genes and the Genome #48 - YouTube](https://www.youtube.com/watch?v=wv1TQXBQ6wQ&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=50) and [GCSE Biology - DNA Part 2 - Alleles / Dominant / Heterozygous / Phenotypes and more! #49 - YouTube](https://www.youtube.com/watch?v=zNEtVaNQ0s8&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=51) * Reproduction – DNA structure (GCSE Biology only) - [GCSE Biology - What is DNA? (Structure and Function of DNA) #79 - YouTube](https://www.youtube.com/watch?v=T6_wKPAbf2k&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=81) and [How are Proteins Made? - Transcription and Translation Explained #80 - YouTube](https://www.youtube.com/watch?v=ubdoUqmNF98&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=82) and [GCSE Biology - What are DNA Mutations? #81 - YouTube](https://www.youtube.com/watch?v=3jwDl7nYBPM&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=83) * Reproduction – genetic inheritance - [GCSE Biology - Genetic Diagrams #50 - YouTube](https://www.youtube.com/watch?v=mvWy5lbUoHA&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=52) * Reproduction – inherited disorders - [GCSE Biology - Why We Inherit Diseases From Our Family - Polydactyly & Cystic Fibrosis #51 - YouTube](https://www.youtube.com/watch?v=sYPwWHszLDo&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=53) and [GCSE Biology - Family Trees / Family Pedigrees #83 - YouTube](https://www.youtube.com/watch?v=uhKqmNOiPR8&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=85) * Reproduction – sex determination - [Sex Determination | Genetics | Biology | FuseSchool - YouTube](https://www.youtube.com/watch?v=D2hVgujy2E8) * Variation and evolution - [GCSE Biology - Variation and Evolution #52 - YouTube](https://www.youtube.com/watch?v=VjlE5Qzl1S0&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=54) * Variation and evolution – selective breeding - [GCSE Biology - Selective Breeding #53 - YouTube](https://www.youtube.com/watch?v=3B4LEssKSLs&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=55) * Variation and evolution – genetic engineering - [GCSE Biology - Genetic Engineering #54 - YouTube](https://www.youtube.com/watch?v=CfTnVx31pr0&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=56) * Variation and evolution – cloning (GCSE Biology only) - [Modern Cloning Techniques | Genetics | Biology | FuseSchool - YouTube](https://www.youtube.com/watch?v=FjBgLIE7514) * The development of understanding of genetics and evolution – the theory of evolution (GCSE Biology only) - [Charles Darwin's Observations | Evolution | Biology | FuseSchool - YouTube](https://www.youtube.com/watch?v=WAKppAtIeh8) and [The Theory of Evolution by Natural Selection | Evolution | Biology | FuseSchool - YouTube](https://www.youtube.com/watch?v=ccdXeaP1l_s) and [Theories of evolution Lamarck vs Darwin | Evolution | Biology | FuseSchool - YouTube](https://www.youtube.com/watch?v=x73bsC7WIsE) and [Evolution by Natural Selection - Darwin's Finches | Evolution | Biology | FuseSchool - YouTube](https://www.youtube.com/watch?v=s64Y8sVYfFY) * The development of understanding of genetics and evolution – speciation (GCSE Biology only) - [Formation of New Species by Speciation | Evolution | Biology | FuseSchool - YouTube](https://www.youtube.com/watch?v=HPQF9BQnw2A) * The development of understanding of genetics and evolution – the understanding of genetics (GCSE Biology only) - [GCSE Biology - Gregor Mendel and the History of Genetics #84 - YouTube](https://www.youtube.com/watch?v=SOgVM904cPc&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=86) * The development of understanding of genetics and evolution – evidence for evolution - [Evidence for Evolution - YouTube](https://www.youtube.com/watch?v=O21VOcLIb3M) * The development of understanding of genetics and evolution – fossils and extinction - [GCSE Biology - What Are Fossils? What Fossils Tell Us About Extinct Species #55 - YouTube](https://www.youtube.com/watch?v=DhJ4Mo-ptD4&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=57) * The development of understanding of genetics and evolution – resistant bacteria - [GCSE Biology - What is Antibiotic Resistance? Why Antibiotic Resistance is a HUGE issue #56 - YouTube](https://www.youtube.com/watch?v=HdroY9UOG9k&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=58) * Classification of living organisms - [GCSE Biology - Classification #57 - YouTube](https://www.youtube.com/watch?v=HLnaIJm5wM4&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=59)   Primrose Kitten B6 Summary and questions:  [The whole of AQA INHERITANCE, VARIATION and EVOLUTION. 9-1 GCSE Biology combined science for paper 2 - Bing video](https://www.bing.com/videos/search?q=primrose+kitten+B4+bienergetics+youtube&&view=detail&mid=5D86C131D39774F4B2BF5D86C131D39774F4B2BF&&FORM=VDRVRV)  [INHERITANCE, VARIATION AND EVOLUTION. AQA B2-Topic 6. 9-1 GCSE Biology or Combined Science Revision - Bing video](https://www.bing.com/videos/search?q=primrose+kitten+B4+bienergetics+youtube&&view=detail&mid=AF7BDEE9DC4CC232D188AF7BDEE9DC4CC232D188&&FORM=VDRVRV) | Reproduction and inheritance Qs:  <https://couiner.exampro.net/>    Variation, evolution and classification Qs:  <https://sowisug.exampro.net/>    Genetic engineering, selective breeding Qs:  <https://rohiuub.exampro.net/>    B6 GCSE Biology only Qs on DNA and cloning:  <https://eeqaqoo.exampro.net/> |
| B7 | **Ecology**   * Adaptations, interdependence and competition – communities - [GCSE Biology - Interdependence - Community and Competition #58 - YouTube](https://www.youtube.com/watch?v=XVD5izWXmKo&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=60) * Adaptations, interdependence and competition – biotic and abiotic factors - [GCSE Biology - Biotic and Abiotic Factors #59 - YouTube](https://www.youtube.com/watch?v=0mjafH5pVLA&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=61) * Adaptations, interdependence and competition – adaptations - [GCSE Biology - Adaptations #60 - YouTube](https://www.youtube.com/watch?v=tC-u8xcZYSM&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=62) * Organisation of an ecosystem – levels of organisation - [GCSE Biology - Food Chains & Predator Prey Cycles #61 - YouTube](https://www.youtube.com/watch?v=NFTSm3D2xrM&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=63) * Required practical 9 – sampling - [Sampling with Quadrats - GCSE Biology Required Practical - YouTube](https://www.youtube.com/watch?v=RhMOCxXcDrQ&list=PLAd0MSIZBSsHv1pioWRdg-pZCWTo84cdP&index=3) * Organisation of an ecosystem – how materials are cycled - [GCSE Biology - What is the Carbon Cycle? What is the Water Cycle? Cycles Explained #62 - YouTube](https://www.youtube.com/watch?v=urzpnjwazV0&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=64) * Organisation of an ecosystem – decomposition (GCSE Biology only) - [GCSE Science Revision Biology "Decomposition" (Triple) - YouTube](https://www.youtube.com/watch?v=6utMftGxuaI&list=PL9IouNCPbCxVuf3dVIq6kHQ0b27Hu-fgW&index=10) and [Decay and Decomposition - How Does Decay and Decomposition Work? - GCSE Biology - YouTube](https://www.youtube.com/watch?v=jWMtWJyFaPU) * Required practical 10 – decay (GCSE Biology only) - [Decay - GCSE Biology Required Practical - YouTube](https://www.youtube.com/watch?v=zSx83-D-LYE&list=PLAd0MSIZBSsHv1pioWRdg-pZCWTo84cdP&index=6) * Organisation of an ecosystem – impact of environmental change (GCSE Biology only) - [GCSE Science Revision Biology "Environmental Change" (Triple) - YouTube](https://www.youtube.com/watch?v=fZxw0QiaSN4) * Biodiversity and the effect of human interaction on ecosystems – biodiversity - [GCSE Science Revision Biology "Biodiversity" - YouTube](https://www.youtube.com/watch?v=I5UR9uMeWuQ&list=PL9IouNCPbCxVuf3dVIq6kHQ0b27Hu-fgW&index=13) * Biodiversity and the effect of human interaction on ecosystems – waste management - [GCSE Science Revision Biology "Waste Management" - YouTube](https://www.youtube.com/watch?v=1Z405uGDZGo&list=PL9IouNCPbCxVuf3dVIq6kHQ0b27Hu-fgW&index=14) and [GCSE Biology - How Human Waste Reduces Biodiversity - Explained #63 - YouTube](https://www.youtube.com/watch?v=0lUHnS-8kR4&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=65) * Biodiversity and the effect of human interaction on ecosystems – land use and deforestation - [GCSE Biology - Land Use - Deforestation & Peat Bogs #65 - YouTube](https://www.youtube.com/watch?v=SROoINlp4VY&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=67) * Biodiversity and the effect of human interaction on ecosystems – global warming - [GCSE Biology - Global Warming & Climate Change #64 - YouTube](https://www.youtube.com/watch?v=lkqobb34oLI&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=66) * Biodiversity and the effect of human interaction on ecosystems – maintaining biodiversity - [GCSE Biology - Maintaining Biodiversity #66 - YouTube](https://www.youtube.com/watch?v=bs9e6ovISbs&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=68) * Trophic levels in an ecosystem – trophic levels (GCSE Biology only) - [GCSE Biology - Trophic Levels - Producers, Consumers, Herbivores & Carnivores #85 - YouTube](https://www.youtube.com/watch?v=D1In8W2qev4&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=87) * Trophic levels in an ecosystem – pyramids of biomass and transfer of biomass (GCSE Biology only) - [GCSE Biology - Pyramids of Biomass #86 - YouTube](https://www.youtube.com/watch?v=Tn0_L-8amjM&list=PLidqqIGKox7X5UFT-expKIuR-i-BN3Q1g&index=88) and [GCSE Science Revision Biology "Pyramids of Biomass" (Triple) - YouTube](https://www.youtube.com/watch?v=sgh1OWm0oTQ&list=PL9IouNCPbCxVuf3dVIq6kHQ0b27Hu-fgW&index=19) * Food production – factors affecting food security (GCSE Biology only) - [GCSE Science Revision Biology "Food Security" (Triple) - YouTube](https://www.youtube.com/watch?v=_ACn3e4qnaM&list=PL9IouNCPbCxVuf3dVIq6kHQ0b27Hu-fgW&index=20) * Food production – farming techniques (GCSE Biology only) - [GCSE Science Revision Biology "Modern Farming Methods" (Triple) - YouTube](https://www.youtube.com/watch?v=nrbJl3R4YJU&list=PL9IouNCPbCxVuf3dVIq6kHQ0b27Hu-fgW&index=21) * Food production – sustainable fisheries (GCSE Biology only) - [GCSE Science Revision Biology "Sustainable Fisheries" (Triple) - YouTube](https://www.youtube.com/watch?v=u59Eg1uNr5g) and [Modern Agriculture and Fishing | Environment | Biology | FuseSchool - YouTube](https://www.youtube.com/watch?v=RZH5uh9oRgs&list=PLW0gavSzhMlQYSpKryVcEr3ERup5SxHl0&index=140) * Food production – role of biotechnology (GCSE Biology only) - [GCSE Science Revision Biology "Role of Biotechnology" (Triple) - YouTube](https://www.youtube.com/watch?v=6C6lPfQbtek&list=PL9IouNCPbCxVuf3dVIq6kHQ0b27Hu-fgW&index=23)   Primrose Kitten B7 Summary and questions:  [The whole of AQA ECOLOGY. 9-1 GCSE Biology or combined science revision topic 7 for B1 - Bing video](https://www.bing.com/videos/search?q=primrose+kitten+B4+bienergetics+youtube&&view=detail&mid=2AE9E6536551280CA5FB2AE9E6536551280CA5FB&&FORM=VDRVRV)  [ECOLOGY. AQA B2-Topic 7 Quick Fire Questions 9-1 GCSE 9-1 Biology or Combined Science Revision - Bing video](https://www.bing.com/videos/search?q=primrose+kitten+B4+bienergetics+youtube&&view=detail&mid=63F3EA1245776AA1CEF163F3EA1245776AA1CEF1&&FORM=VDRVRV) | Adaptations, interdependence and competition Qs:  <https://botyvat.exampro.net/>    B7 GCSE Biology only Qs on trophic levels, biomass and decomposition:  <https://uieoeef.exampro.net/>    B7 GCSE Biology only Qs on food production:  <https://lesuwiu.exampro.net/>    Biodiversity and effect of humans on ecosystems Qs:  <https://redytot.exampro.net/> |