

Exam Board:	AQA
Subject:	Biology
Paper:	Biology Paper 2
Marks available:	100
Length of paper:	1 hour 45 minutes
Topics:	Homeostasis & Response; Inheritance, Variation & Evolution; Ecology

Exam Information, guidance and hints

Command words:

- Complete - Fill in gaps/add labels
- Give - Recall a simple fact
- Draw - Draw a symbol, diagram or graph
- Name - Only a short answer is required, not an explanation or a description. Often it can be answered with a single word, phrase or sentence.
- Describe - Give details about an event, idea or a process
- Explain - Give reasons for an event, idea or process (use because/so)
- Compare - Identify how things are similar/different
- Suggest - Use your own knowledge in an unfamiliar context
- Plan - Write a method
- Calculate - Use numbers in a formula

Online Resources

- [Cognito past papers](#)

Hints/tips:

- If you are given the equation, ensure you are using it correctly.
- When plotting a graph make sure you are using a pencil & ruler. Be accurate when plotting the points / drawing the bars.

Foundation Example Papers and Markschemes

Higher Example Papers and Markschemes

2018 F Paper	Annotated P2	2018 MS	2018 H paper	Annotated P2	2018 MS
2019 F Paper	Annotated P2	2019 MS	2019 H Paper	Annotated P2	2019 MS
2020 F Paper	Annotated P2	2020 MS	2021 H Paper	Annotated P2	2021 MS

PLC Biology Paper 2 - Mock 2

Topic	Key information related to topic	Sparx Code	Resources/Information related to topic	How well do you understand this topic? RAG		
				Red	Amber	Green
Homeostasis	Define homeostasis and identify conditions that it controls	R904	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_7.01			
Homeostasis	Explain how receptors, neurones, coordination centres and effectors are involved in homeostasis	R213	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_7.05			
Homeostasis	HT - Describe and explain the process of IVF to treat infertility.	R493	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_7.1			
Homeostasis	Define metabolism and describe how it can be increased or decreased.	R434	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_3.04			
Homeostasis	Describe and explain the differences between the nervous and endocrine systems.	R832	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_7.07			
Homeostasis	Name the glands in the endocrine system and explain their functions. You should be able to locate them on a diagram. (pituitary gland, pancreas, thyroid, adrenal gland, ovary, testes.)	R832	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_7.07			
Homeostasis	Describe how the body maintains a consistent blood glucose concentration (HIGHER - must include low blood sugar as well as high blood sugar)	R379	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_7.03			
Homeostasis	HT: Explain the roles of thyroxine and adrenaline in the body	R275	https://www.youtube.com/watch?v=_Mts354VC7A			
Homeostasis	HT: Explain what is meant by negative feedback including examples	R275	https://www.youtube.com/watch?v=_Mts354VC7A			
Homeostasis	Describe how hormones are transported around the body.	R832	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_7.07			
Homeostasis	Identify the main glands in the body and the hormones that they produce	R832	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_7.07			

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Homeostasis	Describe type 1 and type 2 diabetes (symptoms and causes)	R841	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_7.04			
Homeostasis	Describe the treatments for the different types of diabetes.	R841	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_7.04			
Homeostasis	Describe a method for measuring human reaction time. Include control variables to ensure valid, reliable results.	R683	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_7.05 https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_11.08			
Homeostasis	Identify different types of neurones and describe their function	R213				
Homeostasis	Describe the order in which a nervous response occurs.	R213	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_7.05			
Homeostasis	Describe how the reflex arc works	R936	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_7.05			
Homeostasis	Explain why the reflex arc is important	R936	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_7.05			
Homeostasis	Explain how neurones are adapted for their function.	R841	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_7.05			
Homeostasis	Describe the role of hormones in human reproduction. (Testosterone, oestrogen, progesterone, LH and FSH)	R651	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_7.08			
Homeostasis	HT: Describe the interactions between oestrogen, progesterone, LH, FSH and the female reproductive system in controlling the menstrual cycle.	R910	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_7.08			
Homeostasis	Identify different types of contraception (chemical and barrier) and explain how they work	R679	https://www.youtube.com/watch?v=iXswGsfeHJg			
Homeostasis	Evaluate the use of different contraceptives	R679	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_7.09			

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Homeostasis	HT: Explain how hormones are used to treat fertility problems (IVF)	R493	https://www.youtube.com/watch?v=4CxNeiAlCmc			
Homeostasis	HT: Evaluate fertility treatments	R493	https://www.youtube.com/watch?v=4CxNeiAlCmc			
Homeostasis	Identify the main structures in the brain and describe their functions.	R838	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_4.12			
Homeostasis	HT: Explain the difficulties in investigating brain function and treating brain damage and disease.	R464	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_4.12			
Homeostasis	HT: Evaluate the benefits and risks of procedures carried out on the brain and nervous system.	R464	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_4.12			
Homeostasis	Identify the structures of the eye and explain how the structures link to their functions.	R850	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_4.13			
Homeostasis	Describe the process of accommodation and describe how the eye changes shape.	R369	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_4.14			
Homeostasis	Explain how myopia and hyperopia affect the eye and their treatments.	R864	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_4.14			
Homeostasis	Interpret ray diagrams, showing myopia and hyperopia and demonstrate how lenses correct them.	R864	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_4.14			
Homeostasis	Describe how the body monitors and controls the body's temperature.	R160	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_7.02			
Homeostasis	HT: Explain how the body monitors and controls the body's temperature.	R160	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_7.02			
Homeostasis	Describe the processes of filtration and selective reabsorption and state which molecules are not filtered, are filtered out completely and which are filtered but then selective reabsorbed.	R445 R591 R570	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_4.09 https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_4.11			

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Homeostasis	HT: Explain how a change in ADH production by the pituitary gland can impact the volume and concentration of urine produced by the kidney's	R141	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_4.09			
Homeostasis	Describe how kidney dialysis works.	R570	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_4.11			
Homeostasis	Evaluate the advantages and disadvantages of treating organ failure by mechanical device or transplant.	R570	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_4.11			
Homeostasis	HT: Describe how amino acids are excreted safely from the body.	R445	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_4.09			
Homeostasis	Explain the effect on cells of osmotic changes in body fluids.	R445				
Homeostasis	Describe what a tropism is in plants and name the hormone responsible for the response.	R201	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_6.16 https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_11.09			
Homeostasis	Plan an investigation to investigate the effect of directional light of the growth of seedlings.	R730	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_11.09			
Homeostasis	HT - Explain how different plant hormones can be used to control plant growth and fruit ripening.	R782	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_6.16			
Inheritance, variation and evolution	Describe the differences between asexual and sexual reproduction.	R320	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_8.12			
Inheritance, variation and evolution	Name the classification groups in order of size in Linnaeus's classification system. Describe this classification system	R761	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_8.22 https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_1.01			
Inheritance, variation and evolution	Describe Carl Woese's three domain classification system	R761	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_8.22			

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Inheritance, variation and evolution	Describe the process of mitosis	R761	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_8.09			
Inheritance, variation and evolution	Describe the process of meiosis including its function	R969	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_8.1			
Inheritance, variation and evolution	Compare mitosis and meiosis	R969	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_8.1			
Inheritance, variation and evolution	Describe the differences between body cells and gametes.	R668 R969	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_8.12			
Inheritance, variation and evolution	Compare the advantages and disadvantages of sexual and asexual reproduction	R320	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_8.13			
Inheritance, variation and evolution	Describe the structure and function of DNA	R794	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_8.01 https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_8.02			
Inheritance, variation and evolution	Describe the human genome project (include what it was and what the importance of it was)	R810	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_5.2			
Inheritance, variation and evolution	Explain the risks and benefits of of GM crops and genetic modification in medicine.	R801 R609	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_9.01			
Inheritance, variation and evolution	Describe genetic engineering (HT also must be able to describe the stages in genetic engineering)	R801 R805 (R609)	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_9.01			
Inheritance, variation and evolution	Define key inheritance vocabulary such as gamete, chromosome, gene, genotype, phenotype, allele, homozygous, heterozygous, dominant and recessive.	R216	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_8.02			
Inheritance, variation and evolution	Use genetic diagrams to draw and complete a punnett square diagram including showing the probability for a particular genotype or phenotype	R249 R933 R431	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_8.14			

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Inheritance, variation and evolution	Use punnett squares to show how sex is determined from X and Y chromosomes	R431	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_8.14			
Inheritance, variation and evolution	HT: Describe the process of protein synthesis and explain how the structure of DNA affects the protein made.	R295	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_8.04			
Inheritance, variation and evolution	HT: Describe how coding and non-coding parts of DNA can affect how genes are expressed.	R909	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_8.03			
Inheritance, variation and evolution	Describe the four different methods of cloning • Tissue culture • Cuttings • Embryo transplants • Adult cell cloning	R859 R492	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_9.02 https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_9.03			
Inheritance, variation and evolution	Explain the potential benefits and risks of cloning in agriculture and in medicine	R859 R492	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_9.02 https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_9.03			
Inheritance, variation and evolution	HT - Describe how a mutation during protein synthesis can result in enzymes that do not function correctly.	R909 R295	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_8.04 https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_8.05			
Inheritance, variation and evolution	Describe inherited disorders such as cystic fibrosis and polydactyly	R431	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_8.16			
Inheritance, variation and evolution	Compare the arguments for and against embryonic screening.	R249	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_8.16			
Inheritance, variation and evolution	Describe the differences between inherited characteristics, environmental characteristics and characteristics controlled by a mixture of both. Include examples of each.	R249	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_8.06			

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Inheritance, variation and evolution	Explain the importance of mutations in genetic variation	R909	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_8.06			
Inheritance, variation and evolution	Explain how to determine the most recent common ancestor or the most distant relative of a species using an evolutionary tree.	R761	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_8.22			
Inheritance, variation and evolution	Name the scientists who developed the theory of evolution by natural selection and describe the theory.	R909 R157 R738	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_8.05 https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_8.07 https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_8.06			
Inheritance, variation and evolution	Describe the theory of evolution by natural selection and use it to explain specific examples of evolution	R738	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_8.06			
Inheritance, variation and evolution	Describe how the Theory of Evolution developed over time and Compare Lamarck's Theory of evolution to Darwin's Theory of evolution	R157	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_8.07			
Inheritance, variation and evolution	Describe the work of Darwin and Wallace in the development of the theory of evolution by natural selection and explain the impact of the ideas.	R157	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_8.07			
Inheritance, variation and evolution	Describe the steps which give rise to new species (speciation).	R733	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_8.2			
Inheritance, variation and evolution	Describe the experiments and findings of Gregor Mendel and explain how the findings link to our current understanding of inheritance	R189	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_8.17			
Inheritance, variation and evolution	Explain how the gene theory developed over time	R189	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_8.17			
Inheritance, variation and evolution	Describe the process of selective breeding	R754	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_8.18			

Topic	Key information related to topic	Sparx Code	Resources/Information related to topic	How well do you understand this topic? RAG		
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Inheritance, variation and evolution	Evaluate the use of selective breeding	R754	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_8.18			
Inheritance, variation and evolution	State the reasons that a species may become extinct.	R294 R719	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_8.19			
Inheritance, variation and evolution	Describe how fossil evidence can be used to provide evidence for evolution	R719	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_8.19			
Inheritance, variation and evolution	Explain how fossils form, including why some organisms do not form fossils	R719	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_8.19			
Inheritance, variation and evolution	Explain why there are gaps in the fossil record	R719	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_8.19			
Inheritance, variation and evolution	Explain how antibiotic resistant bacteria develop	R175	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_8.23			
Inheritance, variation and evolution	Describe advice for and from doctors to prevent the spread of antibiotic resistant bacteria	R175	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_8.23			
Ecology	Draw a food chain and food webs	R618	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_10.04			
Ecology	Describe the interdependence of organisms in an ecosystem including predator/prey and competition	R226	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_10.02			
Ecology	Describe how interdependence is linked to food, shelter, seed dispersal and pollination and what would happen if the stable community is disrupted	R226	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_10.02			
Ecology	Describe biotic factors including examples	R656	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_10.03			
Ecology	Describe abiotic factors including examples	R173	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_10.03			
Ecology	Describe how organisms are adapted to their environment	R453	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_10.03			

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Ecology	Define extremophile and give examples	R453	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_8.21			
Ecology	Describe how to calculate a population estimate using quadrats.	R347 R355	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_10.07 https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_11.1			
Ecology	Describe how to ensure quadrats are placed randomly when estimating population.	R355	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_11.1			
Ecology	Name and describe different types of pollution.	R604	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_10.13			
Ecology	Describe and explain the effects of climate change	R325	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_10.17			
Ecology	Define key organisation of an ecosystem vocabulary such as: ecosystem, community, population, producers, consumers, decomposers, prey and predator	R504	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_10.02			
Ecology	Describe the different ways in which predator species can be important in ecosystem stability.	R226	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_10.02			
Ecology	Describe the process of eutrophication and explain its impacts on the environment.	R604	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_10.13			
Ecology	Describe the carbon cycle and explain its importance for life on Earth	R824	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_10.09			
Ecology	Describe the water cycle and explain its importance for life on Earth	R153	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_10.09			
Ecology	Explain how temperature, water and availability of oxygen affect the rate of decay of biological material.	R687 R152 R863	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_10.11			
Ecology	Describe how biogas generators can be used to produce methane gas as a fuel.	R687 R152	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_10.11			

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Ecology	HT: Evaluate the impact of environmental changes (temperature, water availability, composition of atmospheric gases) on the distribution of species in an ecosystem.	R555	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_10.07			
Ecology	Define biodiversity	R748	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_10.14			
Ecology	Explain positive and negative ways that humans can impact biodiversity	R124	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_10.14			
Ecology	Explain the impact of deforestation on ecosystems	R604 R975	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_10.19			
Ecology	Explain the impact of global warming on ecosystems	R325	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-f-c_10.13			
Ecology	Construct pyramids of biomass.	R305	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_10.06			
Ecology	Describe the differences between the trophic levels of organisms within an ecosystem and explain the transfer of biomass between the different trophic levels.	R292 R438	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_10.05			
Ecology	Calculate the efficiency of biomass transfers.	R292	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_10.06			
Ecology	Interpret population and food production statistics to evaluate food security.	R311	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_9.09			
Ecology	Describe some of the biological factors affecting levels of food security.	R311	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_9.09			
Ecology	Evaluate the advantages and disadvantages of modern farming techniques.	R177	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_9.04			
Ecology	Describe how to increase the efficiency of food production.	R311	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_9.04			

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Ecology	Describe how different fishing techniques promote recovery of fish stocks.	R177	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_9.08			
Ecology	Describe and explain the possible biotechnical and agricultural solutions, to help meet the demands of the growing human population.	R311	https://cognitoedu.org/coursesubtopic/b2-gcs-e-aqa-h-t_9.09			
Scientific Skills	Identify variables in experiments	X	https://www.youtube.com/watch?v=nKbUbfadxRU			
Scientific Skills	Describe relationships shown in graphs	X	https://www.youtube.com/watch?v=OzDUYj6nNCA			
Scientific Skills	Calculate mean, median and mode	X	https://www.youtube.com/watch?v=nYScfgOdz_A			