

Programme of study matching chart

Lesson number	Lesson title	Lesson objectives	AQA specification reference	Lesson resources (on CD ROM)	Collins Connect resources
<b>Chapter 1: Cell biology</b>					
1.1	Looking at cells	<ul style="list-style-type: none"> <li>Describe the structure of eukaryotic cells.</li> <li>Recognise the order of magnitude of cells.</li> <li>Explain how the main sub-cellular structures are related to their functions.</li> </ul>	4.1.1.1; 4.1.1.2	Worksheets 1.1.1, 1.1.2 and 1.1.3; PowerPoint presentation	Quick starter Homework worksheet Homework quiz Slideshow
1.2	The light microscope	<ul style="list-style-type: none"> <li>Observe plant and animal cells with a light microscope.</li> <li>Understand the limitations of light microscopy.</li> </ul>	4.1.1.5	Worksheet 1.2; Practical sheet 1.2; Technician's notes 1.2; PowerPoint presentation	Quick starter Homework worksheet Homework quiz Slideshow
1.3	Looking at cells in more detail	<ul style="list-style-type: none"> <li>Identify the differences in the magnification and resolving power of light and electron microscopes.</li> <li>Describe simply how electron microscopes work in comparison to light microscopes.</li> <li>Explain how electron microscopy has increased our understanding of sub-cellular structures.</li> </ul>	4.1.1.5	Worksheet 1.3; PowerPoint presentation	Quick starter Homework worksheet Homework quiz
1.4	Required practical: Using a light microscope to observe and record animal and plant cells	<ul style="list-style-type: none"> <li>Apply knowledge to select techniques, instruments, apparatus and materials to observe cells.</li> <li>Make and record observations and measurements.</li> <li>Present observations and other data using appropriate</li> </ul>	4.1.1.2	Worksheets 1.4.1 and 1.4.2; Practical sheets 1.4.1 and 1.4.2; Technician's notes 1.4	Quick starter Homework worksheet Homework quiz Video

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		methods.			
1.5	Primitive cells	<ul style="list-style-type: none"> <li>Describe the differences between prokaryotic cells and eukaryotic cells.</li> <li>Explain how the main sub-cellular structures of prokaryotic and eukaryotic cells are related to their functions.</li> </ul>	4.1.1.1; 4.1.1.2; 4.6.4	Worksheet 1.5; PowerPoint presentation	Quick starter Homework worksheet Homework quiz
1.6	Cell division	<ul style="list-style-type: none"> <li>Describe the process of mitosis in growth, and mitosis as part of the cell cycle.</li> <li>Describe how the process of mitosis produces cells that are identical genetically to the parent cell.</li> </ul>	4.1.2.1; 4.1.2.2	Worksheets 1.6.1 and 1.6.2; Technician's notes 1.6; PowerPoint presentation	Quick starter Homework worksheet Homework quiz
1.7	Cell differentiation	<ul style="list-style-type: none"> <li>Explain the importance of cell differentiation.</li> <li>Describe how cells, tissues, organs and organ systems are organised to make up an organism.</li> <li>Understand size and scale in relation to cells, tissues, organs and organ systems.</li> </ul>	4.1.1.3; 4.1.1.4	Worksheet 1.7; PowerPoint presentation	Quick starter Homework worksheet Homework quiz
1.8	Cancer	<ul style="list-style-type: none"> <li>Describe cancer as a condition resulting from changes in cells that lead to their uncontrolled growth, division and spread.</li> <li>Understand some of the risk factors that trigger cells to become cancerous.</li> </ul>	4.2.2.7	Worksheets 1.8.1, 1.8.2 and 1.8.3; PowerPoint presentation	Quick starter Homework worksheet Homework quiz Slideshow Video

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		<ul style="list-style-type: none"> <li>Use data to analyse and evaluate the impact of cancer.</li> </ul>			
1.9	Stem cells	<ul style="list-style-type: none"> <li>Describe the function of stem cells in embryonic and adult animals.</li> <li>Discuss potential benefits and risks associated with the use of stem cells in medicine.</li> </ul>	4.1.2.3	Worksheets 1.9.1 and 1.9.2; PowerPoint presentation	Quick starter Homework worksheet Homework quiz
1.10	Stem cell banks	<ul style="list-style-type: none"> <li>Explore the use of stem cells in medicine.</li> <li>Identify the risks in using stem cells.</li> <li>Evaluate the benefits and disadvantages of using stem cells.</li> </ul>	4.1.2.3	Worksheet 1.10; PowerPoint presentation	Quick starter Homework worksheet Homework quiz Video
1.11	Key concept: Cell development	<ul style="list-style-type: none"> <li>Give examples of where mitosis is necessary to produce identical daughter cells.</li> <li>Understand the need for reduction division, meiosis.</li> <li>Describe the use and potential of cloned cells in biological research.</li> </ul>	4.1.2	Worksheets 1.11.1 and 1.11.2; PowerPoint presentation	Quick starter Homework worksheet Homework quiz Slideshow Video
1.12	Cells at work	<ul style="list-style-type: none"> <li>Recognise that all organisms respire.</li> <li>Explain respiration as the process of making energy.</li> <li>Describe aerobic respiration as an exothermic reaction.</li> </ul>	4.4.2.1	Worksheet 1.12; Practical sheet 1.12; Technician's notes 1.12; PowerPoint presentation	Quick starter Homework worksheet Homework quiz
1.13	Living without oxygen	<ul style="list-style-type: none"> <li>Describe the process of anaerobic respiration.</li> </ul>	4.2.2.1	Worksheet 1.13; PowerPoint presentation	Quick starter Homework worksheet

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Lesson number	Lesson title	Lesson objectives	AQA specification reference	Lesson resources (on CD ROM)	Collins Connect resources
		<ul style="list-style-type: none"> <li>Explain when anaerobic processes occur.</li> <li>Compare the processes of aerobic and anaerobic respiration.</li> </ul>			Homework quiz Slideshow Video
1.14	Maths skills: Size and number	<ul style="list-style-type: none"> <li>Make estimates of the results of simple calculations, without using a calculator.</li> <li>Use ratio and proportion to calibrate a microscope.</li> <li>Recognise and use numbers in decimal and standard form.</li> </ul>		Worksheets 1.14.1 and 1.14.2	Quick starter Homework worksheet Homework quiz Slideshow Video
<b>Assessments</b>		End of chapter test Student Book End of chapter test Collins Connect			
<b>Chapter 2: Photosynthesis</b>					
2.1	Explaining photosynthesis	<ul style="list-style-type: none"> <li>Identify the raw materials and products of photosynthesis.</li> <li>Describe photosynthesis by an equation.</li> <li>Explain gas exchange in leaves.</li> </ul>	4.4.1.1	Worksheet 2.1; Practical sheet 2.1; Technician's notes 2.1	Quick starter Homework worksheet Homework quiz Slideshow
2.2	Looking at photosynthesis	<ul style="list-style-type: none"> <li>Explain the importance of photosynthesis.</li> <li>Explain how plants use the glucose they produce.</li> </ul>	4.2.3.2; 4.4.1.1	Worksheet 2.2; Technician's notes 2.2	Quick starter Homework worksheet Homework quiz
2.3	Investigating leaves	<ul style="list-style-type: none"> <li>Identify the internal structures of a leaf.</li> <li>Explain how the structure of a leaf is adapted for photosynthesis.</li> </ul>	4.2.3.1	Worksheets 2.3.1, 2.3.2 and Technician's notes 2.3	Quick starter Homework worksheet Homework quiz Slideshow

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Lesson number	Lesson title	Lesson objectives	AQA specification reference	Lesson resources (on CD ROM)	Collins Connect resources
		<ul style="list-style-type: none"> <li>Recall that chloroplasts absorb energy from light for photosynthesis.</li> </ul>			
2.4	Required practical: Investigate the effect of light intensity on the rate of photosynthesis using an aquatic organism such as pondweed	<ul style="list-style-type: none"> <li>Use scientific ideas to evaluate a hypothesis.</li> <li>Use the correct sampling techniques to ensure that readings are representative.</li> <li>Present results in a graph.</li> </ul>	4.4.1.2	Worksheet 2.4; Practical sheets 2.4.1, 2.4.2 and 2.4.3; Technician's notes 2.4	Quick starter Homework worksheet Homework quiz Slideshow
2.5	Increasing photosynthesis	<ul style="list-style-type: none"> <li>Identify factors that affect the rate of photosynthesis.</li> <li>Interpret data about the rate of photosynthesis.</li> <li>Explain the interaction of factors in limiting the rate of photosynthesis.</li> </ul>	4.4.1.2	Worksheet 2.5; Technician's notes 2.5	Quick starter Homework worksheet Homework quiz
2.6	Increasing food production	<ul style="list-style-type: none"> <li>Identify the factors that increase food production.</li> <li>Explain how these factors can be controlled.</li> <li>Evaluate the benefits of manipulating the environment to increase food production.</li> </ul>	4.4.1.2	Worksheet 2.6; Technician's notes 2.6	Quick starter Homework worksheet Homework quiz Slideshow Video
2.7	Key concept: Diffusion in living systems	<ul style="list-style-type: none"> <li>Use concentration gradients to explain the direction of diffusion.</li> <li>Apply the principles of diffusion to movement of different substances in plants.</li> </ul>	4.1.3.1	Worksheets 2.7.1, 2.7.2 and 2.7.3; Practical sheet 2.7; Technician's notes 2.7	Quick starter Homework worksheet Homework quiz Slideshow Video

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2.8	Looking at stomata	<ul style="list-style-type: none"> <li>Describe transpiration in plants.</li> <li>Explain the structure and function of stomata.</li> <li>Explain the relationship between transpiration and leaf structure.</li> </ul>	4.2.3.1; 4.2.3.2	Worksheet 2.8; Practical sheet 2.8; Technician's notes 2.8	Quick starter Homework worksheet Homework quiz Video
2.9	Moving water	<ul style="list-style-type: none"> <li>Describe the structure and function of xylem and roots.</li> <li>Describe how xylem and roots are adapted to absorb water.</li> <li>Explain why plants in flooded or waterlogged soil die.</li> <li>Explain how wilting occurs.</li> </ul>	4.2.3.1; 4.2.3.2	Worksheets 2.9.1, 2.9.2 and 2.9.3; Practical sheet 2.9; Technician's notes 2.9	Quick starter Homework worksheet Homework quiz Video
2.10	Investigating transpiration	<ul style="list-style-type: none"> <li>Describe how transpiration is affected by different factors.</li> <li>Explain the movement of water in the xylem.</li> </ul>	4.2.3.2	Worksheet 2.10; Practical sheet 2.10; Technician's notes 2.10	Quick starter Homework worksheet Homework quiz Slideshow
2.11	Moving sugar	<ul style="list-style-type: none"> <li>Describe the movement of sugar in a plant as translocation.</li> <li>Explain how the structure of phloem is adapted to its function in the plant.</li> <li>Explain the movement of sugars around the plant.</li> </ul>	4.2.3.2	Worksheet 2.11; Technician's notes 2.11	Quick starter Homework worksheet Homework quiz
2.12	Maths skills: Surface area to volume ratio	<ul style="list-style-type: none"> <li>Be able to calculate surface area and volume.</li> <li>Be able to calculate surface area to volume ratio.</li> </ul>		Worksheet 2.12	Quick starter Homework worksheet Homework quiz Slideshow Video

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Lesson number	Lesson title	Lesson objectives	AQA specification reference	Lesson resources (on CD ROM)	Collins Connect resources
		<ul style="list-style-type: none"> <li>Know how to apply ideas about surface area and volume.</li> </ul>			
<b>Assessments</b>		End of chapter test Student Book End of chapter test Collins Connect End of teaching block test Collins Connect			
<b>Chapter 3: Moving and changing materials</b>					
3.1	Explaining water movement	<ul style="list-style-type: none"> <li>Describe how water moves by osmosis in living tissues.</li> <li>Identify factors that affect the rate of osmosis.</li> <li>Explain what the term 'partially permeable membrane' means.</li> </ul>	4.1.3.2	Worksheet 3.1; Practical sheet 3.1; Technician's notes 3.1	Quick starter Homework worksheet Homework quiz Slideshow
3.2	Required practical: Investigate the effect of a range of concentrations of salt or sugar solutions on the mass of plant tissue	<ul style="list-style-type: none"> <li>Use scientific ideas to develop a hypothesis.</li> <li>Plan experiments to test a hypothesis.</li> <li>Draw conclusions from data and compare these with hypotheses made.</li> </ul>	4.1.3.2	Worksheet 3.2; Practical sheets 3.2.1 and 3.2.2; Technician's notes 3.2	Quick starter Homework worksheet Homework quiz Slideshow
3.3	Learning about active transport	<ul style="list-style-type: none"> <li>Describe active transport.</li> <li>Explain how active transport is different from diffusion and osmosis.</li> <li>Explain why active transport is important.</li> </ul>	4.1.3.3	Worksheet 3.3; Technician's notes 3.3	Quick starter Homework worksheet Homework quiz
3.4	Key concept: Investigating the need for transport systems	<ul style="list-style-type: none"> <li>Describe how the size of an organism affects the rate of diffusion.</li> <li>Explain how changes in conditions affect the rate of diffusion.</li> </ul>	4.1.3.1	Worksheet 3.4; Practical sheet 3.4; Technician's notes 3.4	Quick starter Homework worksheet Homework quiz Slideshow Video

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Lesson number	Lesson title	Lesson objectives	AQA specification reference	Lesson resources (on CD ROM)	Collins Connect resources
		<ul style="list-style-type: none"> <li>Explain the need for exchange surfaces and transport systems using surface area to volume ratio.</li> </ul>			
3.5	Explaining enzymes	<ul style="list-style-type: none"> <li>Describe what enzymes are and how they work.</li> <li>Explain the lock-and-key theory.</li> <li>Use the collision theory to explain enzyme action.</li> </ul>	4.2.2.1	Worksheet 3.5; Practical sheet 3.5; Technician's notes 3.5	Quick starter Homework worksheet Homework quiz Slideshow
3.6	Required practical: Investigate the effect of pH on the rate of reaction of amylase enzyme	<ul style="list-style-type: none"> <li>Describe how safety is managed, apparatus is used and accurate measurements are made.</li> <li>Explain how representative samples are taken.</li> <li>Make and record accurate observations.</li> <li>Draw and interpret a graph from secondary data using knowledge and observations.</li> </ul>	4.2.2.1	Worksheets 3.6.1, 3.6.2 and 3.6.3; Practical sheet 3.6; Technician's notes 3.6	Quick starter Homework worksheet Homework quiz Slideshow
3.7	Learning about the digestive system	<ul style="list-style-type: none"> <li>Identify and locate the organs in the digestive system, and describe their functions.</li> <li>Describe how the products of digestion are absorbed into the body.</li> <li>Explain why the small intestine is an efficient exchange surface.</li> </ul>	4.2.2.1	Worksheet 3.7; Practical sheet 3.7 (teacher demonstration); Technician's notes 3.7	Quick starter Homework worksheet Homework quiz Slideshow



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3.8	Explaining digestion	<ul style="list-style-type: none"> <li>Describe how physical digestion helps to increase the rate of chemical digestion.</li> <li>Name the sites of production and action of specific enzymes.</li> <li>Interpret data about digestive enzymes.</li> </ul>	4.2.2.1	Worksheet 3.8	Quick starter Homework worksheet Homework quiz
3.9	Required practical: Use qualitative reagents to test for a range of carbohydrates, lipids and proteins	<ul style="list-style-type: none"> <li>Suggest appropriate apparatus for the procedures.</li> <li>Describe how safety is managed and apparatus is used.</li> <li>Describe how accurate measurements are made.</li> <li>Interpret observations and make conclusions.</li> </ul>	4.2.2.1	Practical sheets 3.9.1 and 3.9.2; Technician's notes 3.9	Quick starter Homework worksheet Homework quiz
3.10	Learning about plants and minerals	<ul style="list-style-type: none"> <li>Describe how mineral ions from the soil help plants to grow.</li> <li>Explain how root hair cells are adapted for efficient osmosis.</li> <li>Describe the function of different mineral ions in a plant.</li> </ul>	4.1.3.3; 4.2.3.2	Worksheet 3.10	Quick starter Homework worksheet Homework quiz
3.11	Investigating how plants use minerals	<ul style="list-style-type: none"> <li>Describe why plants need different mineral ions.</li> <li>Explain the effects of mineral deficiencies on plant growth.</li> <li>Explain the importance of fertilisers.</li> </ul>	4.1.3.3	Worksheet 3.11; Practical sheet 3.11; Technician's notes 3.11	Quick starter Homework worksheet Homework quiz Video

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3.12	Learning about the circulatory system	<ul style="list-style-type: none"> <li>Identify the parts of the circulatory system.</li> <li>Describe the functions of the parts of the circulatory system.</li> <li>Explain how the structure of each part of the circulatory system relates to its function.</li> </ul>	4.2.2.2; 4.2.2.3	Worksheets 3.12.1, 3.12.2 and 3.12.3; Practical sheets 3.12.1 and 3.12.2; Technician's notes 3.12	Quick starter Homework worksheet Homework quiz
3.13	Exploring the heart	<ul style="list-style-type: none"> <li>Describe the structure and functions of the heart.</li> <li>Identify the functions and adaptations of the parts of the heart.</li> <li>Explain the movement of blood around the heart.</li> </ul>	4.2.2.2	Worksheet 3.13; Practical sheet 3.13; Technician's notes 3.13	Quick starter Homework worksheet Homework quiz Slideshow Videos
3.14	Studying blood	<ul style="list-style-type: none"> <li>Identify the parts of the blood and their functions.</li> <li>Explain the adaptations of red blood cells.</li> <li>Explain how red blood cells and haemoglobin transport oxygen efficiently.</li> </ul>	4.2.2.3	Worksheets 3.14.1 and 3.14.2	Quick starter Homework worksheet Homework quiz Video
3.15	Investigating gas exchange	<ul style="list-style-type: none"> <li>Identify the parts of the human gas exchange system and know their functions.</li> <li>Explain how gas exchange occurs in humans.</li> <li>Explain the adaptations of the gas exchange surfaces.</li> </ul>	4.1.3.1; 4.2.2.2	Worksheet 3.15; Practical sheet 3.15; Technician's notes 3.15	Quick starter Homework worksheet Homework quiz Video
3.16	Learning about coronary heart disease	<ul style="list-style-type: none"> <li>Identify the causes and symptoms of coronary heart disease and heart failure.</li> </ul>	4.2.2.4	Worksheets 3.16.1, 3.16.2 and 3.16.3	Quick starter Homework worksheet Homework quiz

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		<ul style="list-style-type: none"> <li>Describe possible treatments of coronary heart disease and heart failure.</li> <li>Evaluate the possible treatments of coronary heart disease and heart failure.</li> </ul>			
3.17	Maths skills: Extracting and interpreting information	<ul style="list-style-type: none"> <li>To extract and interpret information from tables, charts and graphs.</li> </ul>		Worksheets 3.17.1, 3.17.2 and 3.17.3	Quick starter Homework worksheet Homework quiz Slideshow Video
<b>Assessments</b>		End of chapter test Student Book End of chapter test Collins Connect			
<b>Chapter 4: Health matters</b>					
4.1	Learning about health	<ul style="list-style-type: none"> <li>Recall the difference between health and disease.</li> <li>Explain how some diseases interact.</li> <li>Evaluate data about lifestyle and health.</li> </ul>	4.2.2.6; 4.2.2.7	Worksheets 4.1.1, 4.1.2 and 4.1.3; Practical sheet 4.1; Technician's notes 4.1	Quick starter Homework worksheet Homework quiz
4.2	Key concept: Looking at risk factors	<ul style="list-style-type: none"> <li>Recall the causes of some non-communicable diseases.</li> <li>Describe the impact of lifestyle on non-communicable diseases.</li> <li>Explain the impact of lifestyle on non-communicable diseases.</li> </ul>	4.2.2.6	Worksheets 4.2.1 and 4.2.2	Quick starter Homework worksheet Homework quiz Slideshow Video
4.3	Exploring non-communicable diseases	<ul style="list-style-type: none"> <li>Identify risk factors for cancer.</li> <li>Explain the differences between types of tumours.</li> </ul>	4.2.2.6; 4.2.2.7	Worksheet 4.3; Practical sheet 4.3; Technician's notes 4.3	Quick starter Homework worksheet Homework quiz

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Lesson number	Lesson title	Lesson objectives	AQA specification reference	Lesson resources (on CD ROM)	Collins Connect resources
		<ul style="list-style-type: none"> <li>Explain the impact of non-communicable diseases</li> </ul>			
4.4	Analysing and evaluating data	<ul style="list-style-type: none"> <li>Translate information between graphical and numerical forms.</li> <li>Use scatter diagrams to identify correlations.</li> <li>Evaluate the strength of evidence.</li> </ul>	4.2.2.5; 4.2.2.6	Worksheets 4.4.1, 4.4.2 and 4.4.3; Practical sheet 4.4; Technician's notes 4.4	Quick starter Homework worksheet Homework quiz
4.5	Studying pathogens	<ul style="list-style-type: none"> <li>Recall the definition of a pathogen.</li> <li>Explain how communicable diseases can be controlled.</li> <li>Distinguish between epidemics and pandemics.</li> </ul>	4.3.1.1	Worksheets 4.5.1 and 4.5.2	Quick starter Homework worksheet Homework quiz Videos
4.6	Learning about viral diseases	<ul style="list-style-type: none"> <li>Describe the symptoms of some viral diseases.</li> <li>Describe the transmission and control of some viral diseases.</li> <li>Explain how some viral diseases are spread.</li> </ul>	4.3.1.2	Worksheets 4.6.1, 4.6.2 and 4.6.3	Quick starter Homework worksheet Homework quiz Slideshow
4.7	Studying bacterial diseases	<ul style="list-style-type: none"> <li>Describe the symptoms of some bacterial diseases.</li> <li>Explain how some bacterial diseases can be controlled.</li> <li>Compare and contrast bacterial and viral diseases.</li> </ul>	4.3.1.3	Worksheets 4.7.1, 4.7.2 and 4.7.3	Quick starter Homework worksheet Homework quiz
4.8	Looking at fungal diseases	<ul style="list-style-type: none"> <li>Recall the name and symptoms of a fungal disease.</li> <li>Describe the transmission and treatment of rose black spot.</li> <li>Explain how rose black spot affects the growth of the plant.</li> </ul>	4.3.1.4	Worksheet 4.8	Quick starter Homework worksheet Homework quiz Slideshow

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4.9	Learning about malaria	<ul style="list-style-type: none"> <li>Recall that malaria is a protist disease.</li> <li>Describe the lifecycle of the malarial vector.</li> </ul>	4.3.1.5	Worksheets 4.9.1 and 4.9.2	Quick starter Homework worksheet Homework quiz
4.10	Protecting the body	<ul style="list-style-type: none"> <li>Describe how the body protects itself from pathogens.</li> <li>Explain how the body protects itself from pathogens.</li> <li>Explain how communicable diseases can be spread.</li> </ul>	4.3.1.6	Worksheets 4.10.1, 4.10.2 and 4.10.3	Quick starter Homework worksheet Homework quiz
4.11	Exploring white blood cells	<ul style="list-style-type: none"> <li>Describe phagocytosis.</li> <li>Explain how antibody production can lead to immunity.</li> <li>Explain the specificity of immune system responses</li> </ul>	4.3.1.6	Worksheets 4.11.1, 4.11.2 and 4.11.3	Quick starter Homework worksheet Homework quiz
4.12	Using antibiotics and painkillers	<ul style="list-style-type: none"> <li>Describe the uses of antibiotics and painkillers.</li> <li>Explain how antibiotics and painkillers can be used to treat diseases.</li> <li>Explain the limitations of antibiotics.</li> </ul>	4.3.1.8; 4.6.3.4	Worksheet 4.12; Practical sheet 4.12; Technician's notes 4.12	Quick starter Homework worksheet Homework quiz
4.13	Building immunity	<ul style="list-style-type: none"> <li>Recall how vaccinations prevent infection.</li> <li>Explain how mass vaccination programmes reduce the spread of a disease.</li> <li>Evaluate the global use of vaccination.</li> </ul>	4.3.1.7	Worksheets 4.13.1, 4.13.2 and 4.13.3	Quick starter Homework worksheet Homework quiz Slideshow Video

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4.14	Making new drugs	<ul style="list-style-type: none"> <li>Recall some traditional drugs and their origins.</li> <li>Describe how new drugs are developed.</li> <li>Explain why 'double-blind' trials are conducted.</li> </ul>	4.3.1.9	Worksheets 4.14.1 and 4.14.2; Practical sheet 4.14; Technician's notes 4.14	Quick starter Homework worksheet Homework quiz Slideshow Video
4.15	Maths skills: Sampling and scientific data	<ul style="list-style-type: none"> <li>Understand why sampling is used in science.</li> <li>Be able to explain different sampling techniques.</li> <li>Be able to extract and interpret information from graphs.</li> </ul>		Worksheet 4.15; Practical sheet 4.15; Technician's notes 4.15	Quick starter Homework worksheet Homework quiz Slideshow Video
<b>Assessments</b>		End of chapter test Student Book End of chapter test Collins Connect End of teaching block test Collins Connect End of year test Collins Connect			
<b>Chapter 5: Coordination and control</b>					
5.1	Homeostasis	<ul style="list-style-type: none"> <li>Explain the importance of homeostasis in regulating internal conditions in the body.</li> <li>Recall that these control systems involve nervous or chemical responses.</li> <li>Describe how control systems involve receptors, coordination centres and effectors.</li> </ul>	4.5.1	Worksheets 5.1.1 and 5.1.2; PowerPoint presentation	Quick starter Homework worksheet Homework quiz
5.2	The nervous system	<ul style="list-style-type: none"> <li>Explain how the nervous system is adapted to its functions.</li> <li>Describe the structure of the central nervous system and nerves.</li> </ul>	4.5.2	Worksheets 5.2.1 and 5.2.2; PowerPoint presentation	Quick starter Homework worksheet Homework quiz

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5.3	Reflex actions	<ul style="list-style-type: none"> <li>• Explain the importance of reflex actions.</li> <li>• Describe the path of a reflex arc.</li> <li>• Explain how the structures in the reflex arc relate to their function.</li> </ul>	4.5.2	Worksheets 5.3.1, 5.3.2 and 5.3.3; Practical sheet 5.3; Technician's notes 5.3; PowerPoint presentation	Quick starter Homework worksheet Homework quiz Slideshow
5.4	Required practical: Investigating reaction time	<ul style="list-style-type: none"> <li>• Select appropriate apparatus and techniques for the measurement of biological processes.</li> <li>• Carry out physiological experiments safely.</li> <li>• Use appropriate techniques in problem-solving contexts.</li> </ul>	4.5.2.1	Worksheets 5.4.1, 5.4.2 and 5.4.3; Practical sheet 5.4; Technician's notes 5.4	Quick starter Homework worksheet Homework quiz Slideshow
5.5	The endocrine system	<ul style="list-style-type: none"> <li>• Recall that the endocrine system is made up of glands that secrete hormones into the blood.</li> <li>• Know the location of the major endocrine glands.</li> <li>• Understand why the pituitary gland is the 'master gland'.</li> </ul>	4.5.3.1	Worksheets 5.5.1 and 5.5.2	Quick starter Homework worksheet Homework quiz
5.6	Controlling blood glucose	<ul style="list-style-type: none"> <li>• Recall that blood glucose is monitored and controlled by the pancreas.</li> <li>• Understand how insulin controls blood glucose levels.</li> <li>• Understand how insulin works with another hormone – glucagon – to control blood sugar levels.</li> </ul>	4.5.3.2; 4.5.3.6	Worksheets 5.6.1, 5.6.2 and 5.6.3	Quick starter Homework worksheet Homework quiz Video

Programme of study matching chart

Lesson number	Lesson title	Lesson objectives	AQA specification reference	Lesson resources (on CD ROM)	Collins Connect resources
5.7	Diabetes	<ul style="list-style-type: none"> <li>Understand the causes of Type 1 and Type 2 diabetes.</li> <li>Compare Type 1 and Type 2 diabetes.</li> <li>Evaluate information on the relationship between obesity and diabetes, and make appropriate recommendations.</li> </ul>	4.5.3.2; 4.5.3.6	Worksheets 5.7.1 and 5.7.2; PowerPoint presentation	Quick starter Homework worksheet Homework quiz Video
5.8	Diabetes recommendations	<ul style="list-style-type: none"> <li>Understand the causes of Type 1 and Type 2 diabetes.</li> <li>Compare Type 1 and Type 2 diabetes.</li> <li>Evaluate information on the relationship between obesity and diabetes, and make appropriate recommendations.</li> </ul>	4.5.3.2; 4.5.3.6	Worksheet 5.8	Quick starter Homework worksheet Homework quiz Slideshow
5.9	Negative feedback (Higher tier only)	<ul style="list-style-type: none"> <li>Explain the role of thyroxine in the body.</li> <li>Understand the principles of negative feedback, as applied to thyroxine.</li> </ul>	4.5.3.6	Worksheet 5.9; PowerPoint presentation	Quick starter Homework worksheet Homework quiz
5.10	Human reproduction	<ul style="list-style-type: none"> <li>Describe the roles of hormones in sexual reproduction.</li> <li>Explain how hormones interact in the menstrual cycle.</li> </ul>	4.5.3.3	Worksheets 5.10.1 and 5.10.2	Quick starter Homework worksheet Homework quiz
5.11	IVF (Higher tier only)	<ul style="list-style-type: none"> <li>Explain the use of hormones in technologies to treat infertility.</li> <li>Describe the technique of <i>in-vitro</i> fertilisation.</li> </ul>	4.5.3.5	Worksheet 5.11; PowerPoint presentation	Quick starter Homework worksheet Homework quiz



Programme of study matching chart

Lesson number	Lesson title	Lesson objectives	AQA specification reference	Lesson resources (on CD ROM)	Collins Connect resources
		<ul style="list-style-type: none"> <li>Evaluate the scientific, emotional, social and ethical issues of <i>in-vitro</i> fertilisation.</li> </ul>			
5.12	IVF evaluation (Higher tier only)	<ul style="list-style-type: none"> <li>Describe the technique of <i>in-vitro</i> fertilisation.</li> <li>Evaluate the scientific, emotional, social and ethical issues of <i>in-vitro</i> fertilisation.</li> </ul>	4.5.3.5	Worksheet 5.12	Quick starter Homework worksheet Homework quiz
5.13	Systems working together (Higher tier only)	<ul style="list-style-type: none"> <li>Describe the effects of adrenaline.</li> <li>Understand that automatic control systems may involve nervous responses and chemical responses.</li> <li>Understand that combinations of hormones work to produce a response.</li> </ul>	4.5.3.6	Worksheet 5.13	Quick starter Homework worksheet Homework quiz
5.14	Contraception	<ul style="list-style-type: none"> <li>Understand that fertility can be controlled by different hormonal and non-hormonal methods of contraception.</li> <li>Evaluate the different methods of contraception.</li> </ul>	4.5.3.4	Worksheets 5.14.1 and 5.14.2	Quick starter Homework worksheet Homework quiz
5.15	Which contraceptive?	<ul style="list-style-type: none"> <li>Understand that fertility can be controlled by different hormonal and non-hormonal methods of contraception.</li> <li>Evaluate the different methods of contraception.</li> </ul>	4.5.3.4	Worksheet 5.15	Quick starter Homework worksheet Homework quiz
5.16	Maths skills: The spread of scientific data	<ul style="list-style-type: none"> <li>Be able to calculate means and ranges of data.</li> </ul>		Worksheets 5.16.1, 5.16.2 and 5.16.3	Quick starter Homework worksheet Homework quiz Slideshow

Programme of study matching chart

Lesson number	Lesson title	Lesson objectives	AQA specification reference	Lesson resources (on CD ROM)	Collins Connect resources
		<ul style="list-style-type: none"> <li>Understand how to estimate uncertainty from a set of measurements.</li> </ul>			Video
<b>Assessments</b>		End of chapter test Student Book End of chapter test Collins Connect			
<b>Chapter 6: Genetics</b>					
6.1	DNA and genes	<ul style="list-style-type: none"> <li>Describe the structure of DNA.</li> <li>Describe a gene as a small section of DNA that codes for a protein.</li> </ul>	4.6.1.3	Worksheet 6.1; Practical sheet 6.1; Technician's notes 6.1	Quick starter Homework worksheet Homework quiz Slideshow Video
6.2	The human genome	<ul style="list-style-type: none"> <li>Describe a gene as a small section of DNA that codes for a protein.</li> <li>Explain the importance of understanding the human genome.</li> </ul>	4.6.13	Worksheet 6.2	Quick starter Homework worksheet Homework quiz
6.3	Tracing human migration	<ul style="list-style-type: none"> <li>Explain the importance of understanding the human genome.</li> <li>Discuss the use of the human genome in understanding human migration patterns.</li> </ul>	4.6.1.3	Worksheets 6.3.1 and 6.3.2	Quick starter Homework worksheet Homework quiz
6.4	Meiosis	<ul style="list-style-type: none"> <li>Explain how meiosis halves the number of chromosomes for gamete production.</li> <li>Explain how fertilisation restores the chromosome number.</li> <li>Understand that the four gametes produced by meiosis are genetically different.</li> </ul>	4.6.1.1; 4.6.1.2; 4.6.1.4; 4.6.1.6	Worksheets 6.4.1 and 6.4.2	Quick starter Homework worksheet Homework quiz Video

Programme of study matching chart

Lesson number	Lesson title	Lesson objectives	AQA specification reference	Lesson resources (on CD ROM)	Collins Connect resources
6.5	Asexual and sexual reproduction	<ul style="list-style-type: none"> <li>Understand that asexual reproduction involves just one parent and produces genetically identical offspring.</li> <li>Understand that sexual reproduction leads to variety in the offspring.</li> </ul>	4.6.1.1	Worksheets 6.5.1 and 6.5.2	Quick starter Homework worksheet Homework quiz Slideshow
6.6	Genetics	<ul style="list-style-type: none"> <li>Understand and be able to use genetics terms, such as dominant, recessive, genotype, phenotype, homozygous and heterozygous.</li> <li>Know that some human conditions are caused by a recessive allele.</li> </ul>	4.6.1.4; 4.6.1.5	Worksheets 6.6.1 and 6.6.2	Quick starter Homework worksheet Homework quiz Video
6.7	Genetic crosses	<ul style="list-style-type: none"> <li>Use the terms dominant, recessive, genotype, phenotype, homozygous and heterozygous.</li> <li>Know that some human conditions, such as cystic fibrosis, are caused by a recessive allele.</li> <li>Complete or construct a Punnett square to predict the outcome of a genetic cross.</li> </ul>	4.6.1.4; 4.6.1.5	Worksheets 6.7.1, 6.7.2 and 6.7.3	Quick starter Homework worksheet Homework quiz Video
6.8	Tracking gene disorders	<ul style="list-style-type: none"> <li>Understand the use of a family tree to show the inheritance of a characteristic.</li> <li>Explain economic, social and ethical issues concerned with embryo screening.</li> </ul>	4.6.1.4; 4.6.1.5	Worksheets 6.8.1 and 6.8.2	Quick starter Homework worksheet Homework quiz Video

Programme of study matching chart

Lesson number	Lesson title	Lesson objectives	AQA specification reference	Lesson resources (on CD ROM)	Collins Connect resources
6.9	Key concept: Genetics is simple – or is it?	<ul style="list-style-type: none"> <li>Explain how certain characteristics are controlled by a single gene.</li> <li>Understand that many characteristics are the result of multiple genes which interact.</li> <li>Describe the search for genes that are linked to disease.</li> </ul>	4.6.1.4; 4.6.1.5	Worksheet 6.9	Quick starter Homework worksheet Homework quiz Slideshow Video
6.10	Maths skills: Fractions, ratio, proportion and probability	<ul style="list-style-type: none"> <li>Understand and use fractions and percentages.</li> <li>Understand and use ratio and proportion.</li> <li>Understand and use probability when predicting the outcomes of genetic crosses.</li> </ul>	4.6.1.4	Practical sheet 6.10; Technician's notes 6.10	Quick starter Homework worksheet Homework quiz Slideshow Video
<b>Assessments</b>		End of chapter test Student Book End of chapter test Collins Connect End of teaching block test Collins Connect			
<b>Chapter 7: Variation and evolution</b>					
7.1	Variation	<ul style="list-style-type: none"> <li>Recall that differences in the characteristics of individuals in a population is called variation.</li> <li>Understand the genetic and environmental differences leading to variation.</li> </ul>	4.6.2.1	Worksheets 7.1.1, 7.1.2 and 7.1.3; Practical sheet 7.1; Technician's notes 7.1; PowerPoint presentation	Quick starter Homework worksheet Homework quiz
7.2	The theory of evolution	<ul style="list-style-type: none"> <li>Recall that all species of living things have evolved from simple life forms.</li> <li>Explain how evolution occurs through natural selection.</li> </ul>	4.6.2.1; 4.6.2.2	Worksheets 7.2.1, 7.2.2 and 7.2.3; PowerPoint presentation	Quick starter Homework worksheet Homework quiz Slideshow

Programme of study matching chart

Lesson number	Lesson title	Lesson objectives	AQA specification reference	Lesson resources (on CD ROM)	Collins Connect resources
7.3	The origin of species by natural selection	<ul style="list-style-type: none"> <li>Explain the evidence that led Darwin to propose the theory of evolution by natural selection.</li> <li>Describe the process of natural selection.</li> </ul>	4.6.3.1	Worksheets 7.3.1 and 7.3.2; Practical sheet 7.3; Technician's notes 7.3; PowerPoint presentation	Quick starter Homework worksheet Homework quiz Video
7.4	Fossil evidence	<ul style="list-style-type: none"> <li>Understand how, and the situations in which, fossils are formed.</li> <li>Understand how fossils are used as evidence for evolution of species from simpler life forms.</li> </ul>	4.6.3.1; 4.6.3.2	Worksheets 7.4.1 and 7.4.2; PowerPoint presentation	Quick starter Homework worksheet Homework quiz
7.5	How much have organisms changed?	<ul style="list-style-type: none"> <li>Understand why the fossil record is incomplete.</li> <li>Use the fossil record to understand how much, or how little, organisms have changed as life developed on Earth.</li> </ul>	4.6.3.1; 4.6.3.2	Worksheets 7.5.1, 7.5.2 and 7.5.3; PowerPoint presentation	Quick starter Homework worksheet Homework quiz
7.6	Evidence of natural selection and evolution?	<ul style="list-style-type: none"> <li>Understand how scientific theories develop over time.</li> <li>Plan experiments to test hypotheses</li> </ul>	4.6.3.4	Worksheet 7.6; Practical sheets 7.6.1 and 7.6.2	Quick starter Homework worksheet Homework quiz Slideshow
7.7	Antimicrobial resistance	<ul style="list-style-type: none"> <li>Recall that bacteria develop that are resistant to antibiotics, which is evidence of evolution.</li> <li>Understand the mechanism by which antibiotic resistance develops.</li> <li>Understand the effects of the development of antibiotic</li> </ul>	4.6.3.4	Worksheets 7.7.1, 7.7.2 and 7.7.3; PowerPoint presentation	Quick starter Homework worksheet Homework quiz

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Lesson number	Lesson title	Lesson objectives	AQA specification reference	Lesson resources (on CD ROM)	Collins Connect resources
		resistance on the treatment of disease.			
7.8	Combatting antimicrobial resistance	<ul style="list-style-type: none"> <li>Describe how to reduce the rate of development of antibiotic resistance.</li> <li>Understand the requirement for, and the impact of, new antibiotics.</li> <li>Recognise the difficulties associated with developing new antibiotics.</li> </ul>	4.6.3.4	Worksheets 7.8.1 and 7.8.2	Quick starter Homework worksheet Homework quiz
7.9	Selective breeding	<ul style="list-style-type: none"> <li>Describe the process of selective breeding.</li> <li>Recall how selective breeding enables humans to choose desirable characteristics in animals and plants.</li> <li>Explain how selective breeding can lead to inbreeding.</li> </ul>	4.6.2.3	Worksheets 7.9.1 and 7.9.2; PowerPoint presentation	Quick starter Homework worksheet Homework quiz Slideshow
7.10	Producing new plant varieties	<ul style="list-style-type: none"> <li>Describe the process of selective breeding.</li> <li>Recall how selective breeding enables humans to choose desirable characteristics in plants.</li> <li>Evaluate the benefits and risks of selective breeding in plants.</li> </ul>	4.6.2.3	Worksheets 7.10.1 and 7.10.2; PowerPoint presentation	Quick starter Homework worksheet Homework quiz
7.11	Genetic engineering	<ul style="list-style-type: none"> <li>Explain what is meant by the term genetic engineering.</li> <li>Give examples of how plant crops have been genetically</li> </ul>	4.6.2.4	Worksheets 7.11.1 and 7.11.2; PowerPoint presentation	Quick starter Homework worksheet Homework quiz Video

Programme of study matching chart

Lesson number	Lesson title	Lesson objectives	AQA specification reference	Lesson resources (on CD ROM)	Collins Connect resources
		<p>engineered to improve products.</p> <ul style="list-style-type: none"> <li>Describe how fungus cells are engineered to produce human insulin</li> </ul>			
7.12	Genetically modified crops: the science	<ul style="list-style-type: none"> <li>Explain the benefits of genetic modification in a range of crops.</li> <li>Explain the concerns about genetic modification.</li> <li>Explain the ethical concerns about genetic engineering.</li> </ul>	4.6.2.4	Worksheet 7.12	Quick starter Homework worksheet Homework quiz
7.13	Is genetic modification safe?	<ul style="list-style-type: none"> <li>Explore the benefits of genetic modification in medicine.</li> <li>Explain the concerns that people have about genetic modification.</li> <li>Explain the possible safety issues of genetic engineering in agriculture and medicine.</li> </ul>	4.6.2.4	Worksheets 7.13.1 and 7.13.2; PowerPoint presentation	Quick starter Homework worksheet Homework quiz
7.14	Ethically wrong, or essential?	<ul style="list-style-type: none"> <li>Explain the benefits of, and concerns about, genetic modification.</li> <li>Explain the ethical issues of genetic engineering in agriculture and medicine.</li> </ul>	4.6.2.4	Worksheets 7.14.1, 7.14.2 and 7.14.3; PowerPoint presentation	Quick starter Homework worksheet Homework quiz Slideshow
7.15	The tree of life	<ul style="list-style-type: none"> <li>Describe how living things have been classified into groups using a system devised by Linnaeus.</li> <li>Describe how new models of classification have developed.</li> </ul>	4.6.4	Worksheets 7.15.1, 7.15.2 and 7.15.3	Quick starter Homework worksheet Homework quiz Video

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Lesson number	Lesson title	Lesson objectives	AQA specification reference	Lesson resources (on CD ROM)	Collins Connect resources
7.16	Extinction...or survival?	<ul style="list-style-type: none"> <li>List the causes of extinction.</li> <li>Explain how new predators, competitors and diseases can lead to extinctions.</li> </ul>	4.6.3.3	Worksheets 7.16.1, 7.16.2 and 7.16.3; PowerPoint presentation	Quick starter Homework worksheet Homework quiz Slideshow Video
7.17	Maths skills: Using charts and graphs to display data	<ul style="list-style-type: none"> <li>Understand when and how to use bar charts.</li> <li>Understand how to show sub-groups on bar charts.</li> <li>Understand how to plot histograms.</li> </ul>		Worksheets 7.17.1 and 7.17.2	Quick starter Homework worksheet Homework quiz Slideshow Video
<b>Assessments</b>		End of chapter test Student Book End of chapter test Collins Connect			
<b>Chapter 8: Ecology in action</b>					
8.1	Key concept: Learning about ecosystems	<ul style="list-style-type: none"> <li>Describe what an ecosystem is.</li> <li>Explain the importance of high biodiversity.</li> <li>Explain what is meant by a self-supporting ecosystem</li> </ul>	4.7.1.1; 4.7.3.1	Worksheets 8.1.1, 8.1.2 and 8.1.3	Quick starter Homework worksheet Homework quiz Slideshow Video
8.2	Investigating predator–prey relationships	<ul style="list-style-type: none"> <li>Describe how changes in one population affect another.</li> <li>Explain interdependent relationships.</li> <li>Explain how predator–prey population cycles have cyclical changes.</li> </ul>	4.7.2.1	Worksheets 8.2.1 and 8.2.2; Practical sheet 8.2; Technician’s notes 8.2	Quick starter Homework worksheet Homework quiz
8.3	Changing abiotic factors	<ul style="list-style-type: none"> <li>Identify factors that affect ecosystems.</li> <li>Explain changes in the distribution of species in an ecosystem.</li> </ul>	4.7.1.2	Worksheets 8.3.1, 8.3.2 and 8.3.3; Practical sheets 8.3.1 and 8.3.2; Technician’s notes 8.3	Quick starter Homework worksheet Homework quiz Slideshow



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Lesson number	Lesson title	Lesson objectives	AQA specification reference	Lesson resources (on CD ROM)	Collins Connect resources
		<ul style="list-style-type: none"> <li>Describe stable and unstable populations.</li> </ul>			
8.4	Competing for resources	<ul style="list-style-type: none"> <li>Describe how competition impacts on populations.</li> <li>Explain why animals in the same habitat are in competition.</li> <li>Explain interspecific and intraspecific competition.</li> </ul>	4.7.1.1	Worksheets 8.4.1, 8.4.2 and 8.4.3	Quick starter Homework worksheet Homework quiz Slideshow
8.5	Required practical: Measure the population size of a common species in a habitat	<ul style="list-style-type: none"> <li>Use scientific ideas to develop a hypothesis.</li> <li>Plan experiments to test a hypothesis.</li> <li>Explain the apparatus and techniques used to sample a population.</li> <li>Explain how a representative sample was taken.</li> <li>Develop a reasoned explanation for some data.</li> </ul>	4.7.2.1	Worksheet 8.5; Practical sheet 8.5; Technician's notes 8.5	Quick starter Homework worksheet Homework quiz Slideshow
8.6	Adapting for survival in animals	<ul style="list-style-type: none"> <li>Recall why animals have adaptations.</li> <li>Explain some adaptations.</li> <li>Use surface area to volume ratios to explain some adaptations.</li> </ul>	4.7.1.4	Worksheets 8.6.1; 8.6.2 and 8.6.3; Practical sheet 8.6; Technician's notes 8.6	Quick starter Homework worksheet Homework quiz Slideshow
8.7	Adapting for survival in plants	<ul style="list-style-type: none"> <li>Identify some adaptations of plants and bacteria.</li> <li>Explain the importance of plant adaptations.</li> <li>Explain a range of plant adaptations.</li> </ul>	4.7.1.4	Worksheets 8.7.1, 8.7.2 and 8.7.3; Practical sheet 8.7; Technician's notes 8.7	Quick starter Homework worksheet Homework quiz

Programme of study matching chart

Lesson number	Lesson title	Lesson objectives	AQA specification reference	Lesson resources (on CD ROM)	Collins Connect resources
8.8	Cycling materials	<ul style="list-style-type: none"> <li>Recall that many materials are recycled in nature.</li> <li>Explain the stages in the water and decay cycles.</li> <li>Explain the importance of recycling materials.</li> </ul>	4.7.2.2	Worksheets 8.8.1 and 8.8.2; Practical sheet 8.8 (demonstration); Technician's notes 8.8	Quick starter Homework worksheet Homework quiz Video
8.9	Cycling carbon	<ul style="list-style-type: none"> <li>Recall that plants take in carbon as carbon dioxide.</li> <li>Explain how carbon is recycled.</li> <li>Interpret a diagram of the carbon cycle.</li> </ul>	4.7.2.2	Worksheets 8.9.1 and 8.9.2; Practical sheet 8.9; Technician's notes 8.9	Quick starter Homework worksheet Homework quiz Video
8.10	Learning about land use	<ul style="list-style-type: none"> <li>Identify why land use has changed.</li> <li>Describe the effects of changing land use.</li> <li>Evaluate a change in land use.</li> </ul>	4.7.3.3	Worksheets 8.10.1 and 8.10.2	Quick starter Homework worksheet Homework quiz Video
8.11	Changing the landscape	<ul style="list-style-type: none"> <li>State the reasons for deforestation.</li> <li>Understand the impact of peat bog destruction and deforestation.</li> <li>Evaluate the destruction of peat bogs and forests.</li> </ul>	4.7.3.3; 4.7.3.4	Worksheets 8.11.1 and 8.11.2	Quick starter Homework worksheet Homework quiz
8.12	Thinking about global warming	<ul style="list-style-type: none"> <li>Recall what global warming is.</li> <li>Describe the causes of global warming.</li> <li>Explain how global warming impacts on biodiversity.</li> </ul>	4.7.3.5	Worksheet 8.12	Quick starter Homework worksheet Homework quiz Slideshow Videos
8.13	Looking at waste management	<ul style="list-style-type: none"> <li>Describe how waste production is linked to human population growth.</li> </ul>	4.7.3.2	Worksheet 8.13	Quick starter Homework worksheet Homework quiz

Programme of study matching chart

Lesson number	Lesson title	Lesson objectives	AQA specification reference	Lesson resources (on CD ROM)	Collins Connect resources
		<ul style="list-style-type: none"> <li>Describe the impact of waste on ecosystems.</li> <li>Explain how waste impacts on biodiversity.</li> </ul>			Video
8.14	Investigating pollution	<ul style="list-style-type: none"> <li>Identify pollution levels using indicator species.</li> <li>Explain how indicator species measure pollution.</li> <li>Compare different methods of measuring pollution.</li> </ul>	4.7.3.2	Worksheets 8.14.1 and 8.14.2; Practical sheet 8.14; Technician's notes 8.14	Quick starter Homework worksheet Homework quiz
8.15	Maintaining biodiversity	<ul style="list-style-type: none"> <li>Describe some conservation measures.</li> <li>Describe the impact of breeding programmes.</li> <li>Explain how habitats are regenerated.</li> </ul>	4.7.3.6	Worksheets 8.15.1, 8.15.2 and 8.15.3	Quick starter Homework worksheet Homework quiz Videos
8.16	Maths skills: Using graphs to show relationships	<ul style="list-style-type: none"> <li>To recognise direct proportionality in a graph.</li> <li>To calculate reaction rates in linear graphs.</li> <li>To use the gradient of a graph to calculate the rate.</li> </ul>		Worksheet 8.16	Quick starter Homework worksheet Homework quiz Slideshow Video
<b>Assessments</b>		End of chapter test Student Book End of chapter test Collins Connect End of teaching block test Collins Connect End of course test Collins Connect			