Biology KS3 End Points





Lesson	KS2	Year 7	Year 8	Year 9
8.1.1 Levels of organisatio n	I can identify that humans and some other animals have skeletons and	I can state what is meant by a tissue, and organ, and an organ system.	I can define and state examples of tissues, organs, and organ systems.	I can give a detailed explanation of the hierarchy of organisation in a multi-cellular organism, using a range of examples.
	muscles for support, protection and movement.	I can state the sequence of the hierarchy of organisation in a multi-cellular organism.	I can explain the hierarchy of organisation in a multi-cellular organism.	I can explain how the different tissues in an organ and the different organs in an organ system function together.
		When given the necessary information, I can list the organs found in a given organ system, and state the function of that system.	I can interpret information to decide on the function of the individual organs and of the organ system.	I can interpret information to explain the functions of several organ systems.
8.1.2 The skeleton		I can name the main parts of the skeleton.	I can describe the structure of the skeleton.	I can explain the relationship between the bones and joints in the skeleton.
		I can list the functions of the muscular skeletal system.	I can describe the functions of the muscular skeletal system.	I can explain the link between structure and function in the muscular skeletal system.
8.1.3 Movement:		I can state where joints are found in the body.	I can describe the role of joints.	I can explain how the parts of a joint allow it to function.
joints		I can state how a muscle exerts force during movement.	I can explain how to measure the force exerted by different muscles.	I can explain the relationship between the forces required to move different masses.
		I can carry out an experiment to make simple observations.	I can carry out an experiment to make and record measurements of forces using the correct units.	I can carry out an experiment to record measurements of forces, evaluating the accuracy and precision of the method.
8.1.4 Movement: muscles		I can state the function of major muscle groups.	I can describe the function of major muscle groups.	I can explain how the muscle groups interact with other tissues to cause movement.



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I can state the definition for antagonistic muscles.	I can explain how antagonistic muscles cause movement.	I can explain why it is necessary to have both muscles in an antagonistic pair to cause movement.
I can carry out an experiment to study the muscle system in a chicken wing.	I can interpret observations in a chicken wing to describe how the muscles work together to cause movement.	I can interpret observations in a chicken wing to explain how the muscles work together to cause movement.





Lesson	KS2	Year 7	Year 8		Year 9
8.2.1 Observing		I can state what a cell is.	I can describe what a cell is.		I can explain what all living organisms are made of.
cells		I can describe how to use a microscope to observe a cell.	I can explain how to use a microscope to observe a cell.		I can explain what each part of the microscope does and how it is used.
		I can use a microscope to observe a prepared slide, with assistance.	I can use a microscope to observe a prepared slide and state the magnification	n.	I can use a microscope to observe a prepared slide, calculating a range of magnifications.
8.2.2 Plant an animal cells		I can identify one similarity and one difference between a plant and an animal cell.	and animal cells.		I can explain the similarities and differences between plant and animal cells.
		I can match some components of a cell to their functions.	I can describe the functions of the components of a cell.		I can explain the functions of the components of a cell by linking them to life processes.
		With support, I can prepare and observe a microscope slide safely.	I can prepare and observe cells on a microscope slide safely.		I can prepare and observe cells on a microscope slide safely, using scale and magnification.
8.2.3 Specialised cells		I can name some specialised animal cells.	I can describe examples of specialised animal cells.		I can describe examples of specialised animal cells, linking structure to function.
		I can name some specialised plant cells.	I can describe examples of specialised plant cells.		I can describe examples of specialised plant cells, linking structure to function.
		I can state structural adaptations of plant and animal cells.	I can describe structural adaptations of plant and animal cells.		I can compare and contrast structural adaptations of plant and animal cells.
8.2.4 Movement of		I can identify substances that move into or out of cells.	I can name some substances that move into and out of cells.		I can explain which substances move into and out of cells.
substances		I can state what diffusion is.	I can describe the process of diffusion.		I can explain the process of diffusion.
		I can make sets of observations or measurements for	I can collect data for diffusion of coloured gel, choosing appropriate		I can choose and justify data collection methods for investigating the diffusion of



	diffusion of coloured gel, identifying the ranges and intervals used.	ranges, numbers, and valu for measurements and observation.	es	coloured gel that minimise error and produce precise and reliable data.	
8.2.5 Uni- cellular organisms	I can name an example of a uni-cellular organism.	I can describe what a uni-cellular organism is.		I can explain what a uni- cellular organism is and give detailed examples.	
	I can identify some structures in an amoeba. I can identify some	I can describe the structure of an amoeba. I can describe the		I can describe the structure and function of an amoeba. I can describe the structure	
	I can select the appropriate apparatus to observe an amoeba and a euglena cell.	I can select the appropriate magnification to observe an amoeba and a euglena cell through		and function of a euglena. I can give justifications for the choice of magnification when observing an amoeba and a euglena cell through a	
		microscope.		microscope.	





Lesson	KS2	Year 7	Year 8	Year 9
8.3.1 Gas exchange	I can identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood	I can name the parts of the gas exchange system. I can state that the parts of the gas exchange system are adapted to their function.	I can describe the structure of the gas exchange system. I can describe how the parts of the gas exchange system are adapted to their function.	I can describe the gas exchange system as an organ system, linking the organs. I can explain how the adaptations of the parts of the gas exchange system help them perform their function.
	I can recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function	I can state that the composition of the air inhaled and exhaled are different using data provided.	I can interpret data given to compare the difference in the composition of inhaled and exhaled air.	I can interpret data given to explain the difference in the composition of inhaled and exhaled air.
8.3.2 Breathing		I can state what happens to the ribcage and diaphragm during inhaling and exhaling.	I can describe the processes of inhaling and exhaling air.	I can explain how the actions of the ribcage and diaphragm lead to inhaling and exhaling.
		I can state what each part of the bell-jar model represents.	I can describe how a bell jar can be used to model what happens during breathing.	I can explain the similarities and differences between the bell jar and the breathing system.
		I can state a value of lung volume. I can use	I can explain how to measure lung volume. I can use appropriately	I can explain in detail how to measure lung volumes. I can use appropriately calibrated
		appropriately calibrated apparatus to obtain a lung volume.	calibrated apparatus to obtain a lung volume.	apparatus to obtain an accurate lung volume, evaluating the precision of instruments involved.
8.3.3 Drugs		I can name some recreational and medicinal drugs.	I can describe the difference between recreational and medicinal drugs.	I can explain why people take different medicinal and recreational drugs.
		I can state one effect of a drug on health or behaviour.	I can describe the effects of drugs on health and behaviour.	I can explain how recreational drugs can have a negative effect on people's lifestyles.



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8.3.4 Alcohol	I can make observations during an experiment. I can name one effect of alcohol on health or behaviour.	I can interpret experimental observations to draw simple conclusions. I can describe the effect of alcohol on health and behaviour.	I can record accurate and detailed observations from an experiment to draw detailed conclusions, and evaluate methods. I can explain in detail how alcohol affects health and behaviour, detailing its effect on life processes.
	I can state whether alcohol affects conception and pregnancy.	I can describe the effect alcohol has on conception and pregnancy.	I can explain the importance of providing information about drinking to the general public, not just pregnant women.
	I can record results in a given table and plot a graph of results obtained.	I can design a results table and plot subsequent experimental data on an appropriate graph.	I can record data in a well- organised table (with headings and units) and plot an appropriate graph to present results.
8.3.5 Smoking	I can name an effect of tobacco smoke on health.	I can describe the effects of tobacco smoke on health.	I can explain how smoking causes disease.
	I can state whether or not tobacco smoke affects the development of a fetus.	I can describe the effects of tobacco smoke on pregnancy.	I can explain which chemicals in tobacco smoke affect the development of a foetus.
	I can interpret secondary data and present this data on a bar chart.	I can present secondary data using an appropriate method, interpreting this data to draw conclusions.	I can interpret and present secondary data in an appropriate manner. I can then draw conclusions, and extrapolate data from trends shown.





Lesson	KS2	Year 7	Year 8	M	Year 9
8.4.1 Nutrients	I can identify that animals, including humans, need the right types and amount of	I can name some nutrients in a given diet.	I can describe the components of a healthy diet.		I can explain what makes a food a healthy option.
	nutrition, and that they cannot make their own food; they get nutrition from	I can name the nutrients required by the human body.	I can explain the role of each nutrient in the body.		I can explain how each nutrient contributes to a healthy, balanced diet.
	I can describe the simple functions of the basic parts	I can extract nutritional information from food packaging.	I can interpret nutritional information on food packaging to identify a healthy food.		I can interpret nutritional information to make health comparisons between foods.
8.4.2 Food tests	of the digestive system in humans I can identify the different	I can state that food can be tested for starch, lipids, sugar, and protein.	I can describe how to test foods for starch, lipids, sugar, and protein.		I can explain why testing food for starch, lipids, sugar, and protein is important.
	types of teeth in humans and their simple functions I can describe the ways in which nutrients and water are transported within animals, including humans	I can state that food tests show colour changes.	I can describe the positive result for each food test.		I can explain the meaning of positive or negative results in terms of the food tests.
		I can use appropriate techniques to carry out a food test safely.	I can use appropriate techniques to carry out a range of food tests safe	ely.	I can use appropriate techniques to carry out a full range of food tests safely. I can interpret the findings and relate them to everyday situations.
8.4.3 Unhealthy diet		I can state one potential problem for someone with an unhealthy diet.	I can describe some health issues caused by an unhealthy diet.		I can explain how an unhealthy diet causes health issues.
		I can state that different people require different amounts of energy.	I can calculate the energy requirements of different people.		I can explain that different people require different amounts of energy. I can use energy calculations and data to support explanations.
		I can collect experimental data and record observations.	I can collect experimental data and draw conclusions from		I can interpret esperimental data and suggest ways to



		Pri	
		results obtained.	improve the experiment.
8.4.4 Digestive system	I can name the main parts of the digestive system.	I can describe the structure and function of the main parts of the digestive system.	I can explain how each part of the digestive system works in sequence, including how the small intestine is adapted for its function.
	I can state what is meant by digestion.	I can describe the process of digestion.	I can explain why food needs to be digested.
	I can identify the main structures in the digestive system on a model.	I can give a structured account of digestion.	I can give a detailed explanation of digestion in sequence.
8.4.5 Bacteria and enzymes in	I can name some enzymes used in digestion.	I can describe the role of enzymes in digestion.	I can explain how enzymes affect the rate of digestion.
digestion	I can state where bacteria are found in the digestive system.	I can describe the role of bacteria in digestion.	I can explain how some bacteria improve health.
	I can record measurements from an experiment.	I can record experimental data using a suitable results table.	I can record experimental data using a suitable results table, and evaluate the quality of the data.



Lesson	KS2	Year 7	Year 8 Year 9
9.1.1 Food chains and webs	I can recognise that living things can be grouped in a variety of ways	I can state the definition of a food chain.	I can describe what food chains show. I can explain the link between food chains and energy.
	I can explore and use classification keys to help group, identify and name a variety of living things in	I can state the definition of a food web.	I can describe what food web gives a more accurate representation of feeding relationships that a food chain.
	their local and wider environment		I can combine food chains to form a food web.
9.1.2 Disruptions to food	I can recognise that environments can change and that this can sometimes	I can state that one population of organisms can affect another.	I can describe the interdependence of organisms. I can explain the interdependence of organisms.
chains	pose dangers to living things. I can construct and interpret	I can state that toxic material can get into food chains.	I can explain effects of toxic materials on a species' population. I can explain how toxic materials can accumulate in human food sources.
	a variety of food chains, identifying producers, predators and prey	I can present population data as a graph, and decribe simple patterns shown.	I can present population data as a graph to describe trends and draw conclusions. I can present population data as a graph, explaining trends and drawing detailed conclusions from data provided.
			I can explain issues with human food supplies in terms of insect pollinators.
9.1.3 Ecosystems		I can state that different organisms can co-exist.	I can describe how different organisms coexist within an ecosystem. I can explain why different organisms are needed in an ecosystem.
		I can state the definition of the term niche.	I can identify niches within an ecosystem. I can explain why different organisms within the same ecosystem have different niches.



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	I can record data from sampling an ecosystem.	I can use quadrats to take measurements in an ecosystem, and describe trends observed.	I can use quadrats and transects to take unbiased measurements in an ecosystem, and describe trends observed in data.
9.1.4 Competition	I can state some resources that plants and animals compete for. I can interpret secondary data to describe simple predator-prey relationships.	I can describe some resources that plants and animals compete for. I can interpret secondary data to describe trends and draw conclusions about	I can explain the effect of competition on the individual. I can make a deduction based on data about what caused a change in the population of a
	predator-prey relationships.	predator-prey relationships.	species.
			I can suggest what might happen when an unfamiliar species is introduced into a food web.





Lesson	KS2	Year 7	Year 8 Year 9
9.2.1 Flowers and pollination	I can identify and describe the functions of different parts of flowering plants: roots,	I can name the parts of a flower.	I can identify the main structures in a flower and link their structure to their function. I can explain how the structures of the flower are adapted to their function.
	stem/trunk, leaves and flowers I can explore the	I can state what is meant by pollination.	I can describe the process of pollination. I can suggest how plants breeders use knowledge of pollination to carry out selective breeding.
	requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant	I can name two methods of pollination.	I can describe the differences between wind pollinated and insect pollinated plants. I can explain the processes of wind and insect pollination, comparing the similarities and differences between the two.
	I can investigate the way in which water is transported within plants		I can use appropriate techniques to dissect a flower into its main parts. I can use appropriate techniques to dissect a flower and record detailed observations.
9.2.2 Fertilisation and germination	I can explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation	I can state what is meant by fertilisation in plants.	I can describe the process of fertilisation in plants. I can explain the process of fertilisation in plants, explaining the role of each of the parts involved in the process.
	and seed dispersal.	I can state what seeds and fruit are.	I can describe how seeds and fruits are formed. I can explain how the germination of seeds occurs.
		I can make and record observations of germination.	I can make and record observations in a table with clear headings and units, using data to calculate percentage germination. I can make and record observations in a table, using data to calculate percentage germination, and evaluating experimental procedure.
9.2.3 Seed dispersal		I can state what is meant by seed dispersal.	I can describe methods seed dispersal, and use the features of seeds and fruit to explain how they are



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	adapted to their method.	
I can name the methods of seed dispersal.	I can explain why seed dispersal is important to survival of the parent plant and its offspring.	I can develop an argument about why a particular plant structure increases the likelihood of successful production of offspring.
I can plan a simple experiment, stating the variables, when given a hypothesis.	I can plan a simple experiment to test one hypothesis about seed dispersal, identifying a range of variables.	I can plan and design an experiment to test a hypothesis about seed dispersal, clearly explaining all the variables involved.





Lesson	KS2	Year 7		Year 8	M	Year 9	
9.3.1 Aerobic respiration	I can state the requirements for aerobic respiration. I can give the name of the process by which energy is released in cells		I can state the word equation for aerobic respiration. I can describe the process of respiration.		I can explain how the reactants for respiration get into the cells. I can explain the process of aerobic respiration.		
		I can plan an experiment to measure breathing rates.) .	I can plan an investigation to measure the effect of exercise on breathing rat	es.	I can plan an investigation to explain the effect of exercise on respiration rates.	
9.3.2 Anaerobic respiration		I can state the products of anaerobic respiration.		I can state the word equation for anaerobic respiration.		I can explain the uses of the products from anaerobic respiration.	
		I can state one difference between aerobic and anaerobic respiration.		I can describe the differences between aerobic and anaerobic respiration.		I can explain the differences between the two types of respiration.	
		I can identify one source of error in data collected.		I can evaluate data collected, suggesting possible sources of error.		I can evaluate data collected, showing awareness of potential sources of random and systematic errors.	
9.3.3 Biotechnolog y		I can state what is meant by fermentation.		I can write the word equation for fermentation.		I can explain how the process of fermentation works in relation to the word equation.	
		I can name the organism used to make bread, beer, and wine.		I can describe how bread, beer, and wine are made.		I can explain why temperature is important in the making of bread, beer, and wine.	
		I can make observations about the rising of bread dough in an investigation.		I can investigate the effect of temperature on fermentation, recording measurements and drawi a conclusion.	ng	I can investigate the effect of temperature on fermentation, using results to draw a conclusi and suggest one way to minimise error.	ion,



Lesson	KS2	Year 7	Year 8	Year 9
9.4.1 Photosynthes is		I can state where photosynthesis occurs in a plant.	I can describe the process of photosynthesis.	I can explain the importance of photosynthesis in the food chain.
		I can state the products of photosynthesis.	I can state the word equation for photosynthesis.	I can explain how the plant obtains the reactants for photosynthesis.
		I can state how to test for the presence of oxygen.	I can carry out an experiment to prove that oxygen is produced during photosynthesis.	I can carry out and record observations for an experiment to prove that oxygen is produced during photosynthesis.
9.4.2 Leaves		I can name the main structures of a leaf.	I can describe the structure and function of the main components of a leaf.	I can explain how the structures of the leaf make it well adapted for photosynthesis.
9.4.3 Investigating photosynthes is		I can state the function of the chloroplasts in a leaf.	I can explain the distribution of the chloroplasts in a leaf.	I can explain the role of chloroplasts in photosynthesis.
		I can use observations from the underside of a leaf to label a diagram.	I can make observations of stomata from the underside of the leaf, and record observations as a labelled diagram.	I can make observations of stomata from the underside of the leaf, and record as a labelled diagram with annotations.
	I can carry out an experiment to test for the presence of starch in a leaf.	I can carry out and record observations for an experiment to test for the presence of starch in a leaf.	I can carry out and record observations for an experiment to test for the presence of starch in a leaf, explaining results obtained.	
		I can list the factors that affect the rate of photosynthesis.	I can state the relationship between temperature, light intensity,	I can describe why low temperature, shortage of carbon dioxide, and



			and availability of carbon dioxide with the rate of photosynthesis.	shortage of light limit the rate of photosynthesis.
		I can state two experiments which can be used to prove photosynthesis has taken place.		I can state and explain which method of investigating photosynthesis could be used to measure the rate of photosynthesis.
9.4.4 Plants minerals		I can name the minerals required by plants.	I can describe how a plant uses minerals for healthy growth.	I can explain deficiency symptoms in plants.
	I can state that nitrates are essential for plant growth.	I can explain the role of nitrates in plant growth.	I can explain how proteins are made for plant growth.	
		I can record measurements of plant growth.	I can record measurements in a table, and calculate arithmetic means of results.	I can record measurements in a table, and calculate arithmetic means of results, giving answers to the correct number of significant figures.



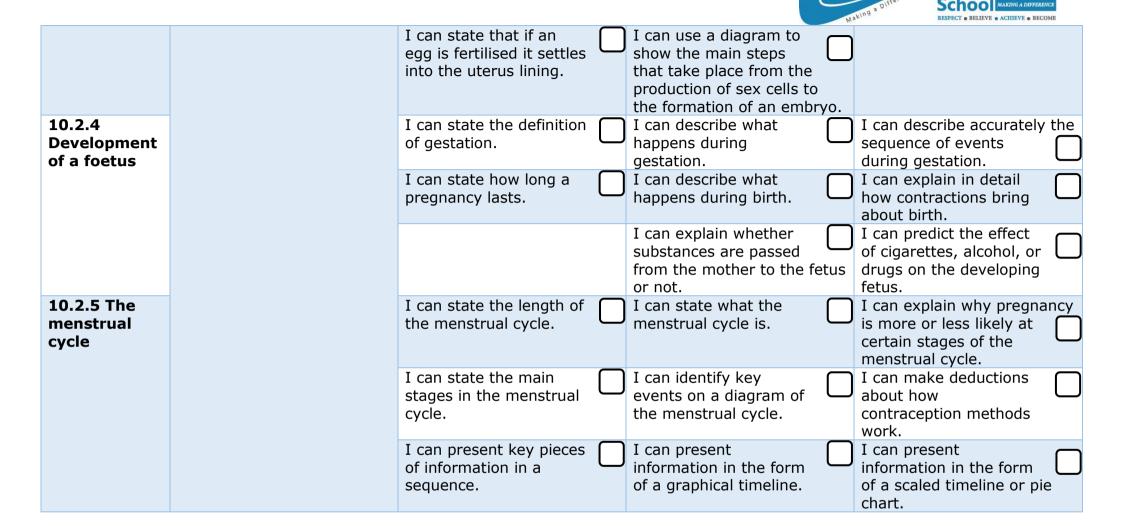
Lesson	KS2	Year 7	Year 8	Year 9
10.1.1 Variation	I can recognise that living things produce offspring of the same kind, but normally	I can state what is meant by the term variation.	I can describe how variation in species occurs.	I can explain how variation gives rise to different species.
	offspring vary and are not identical to their parents I can identify how animals	I can state that variation is caused by the environment or inheritance.	I can explain whether characteristics are inherited, environmental, or both.	I can critique a claim that a particular characteristic in inherited or environmental.
	and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution	I can record observations of variations between different species of gull.	I can record and categorise observations of variations between different species of gull.	I can record and categorise observations of variations between different species of gull to suggest species boundaries.
10.1.2 Continuous and discontinuou		I can state that there are two types of variation.	I can describe the difference between continuous and discontinuous variation.	I can explain the causes of continuous and discontinuous variation.
S		I can state the two types of graphs that can be drawn when representing the two types of variation.	I can use knowledge of continuous and discontinuous variation to explain whether characteristics are inherited, environmental, or both.	I can record results in a table, and identify and plot an appropriate graph to show variation within a species.
		I can record results in a table and plot a graph on axes provided.	I can plot bar charts or line graphs to show discontinuous or continuous variation data.	
			I can record results in a table and plot a histogram.	
10.1.3 Adapting to change		I can name an environmental change.	I can explain how organisms are adapted to their environments.	I can explain how organisms are adapted to seasonal changes.
		I can give a possible reason for adaptation or extinction.	I can explain how variation helps a particular species in a	I can explain how competition or long-term environmental change

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	changing environment.	can lead to evolutionary adaptation or extinction. I can explain the role variation plays in a species success.
	I can describe how organisms are adapted to their environment.	I can predict implications of a change in the environment on a population.





I can describe the definitions for adolescence in the life cycles of a mammal, an amphibian, an insect and a bird a bird I can state changes to the bodies of boys and girls during puberty. I can describe the life process of reproduction in some plants and animals. I can describe the changes as humans develop to old age. I can mame the main structures of the main structures of the main and female reproductive systems. I can explain the main changes that take place during puberty. I can interpret observations given, as changes that take place during puberty. I can interpret observations given, to categorise the changes as humans develop to old age. I can name the main structures of the male and female reproductive systems, including gametes. I can describe the main structures in the male and female reproductive systems. I can explain the difference between adolescence and puberty. I can explain the main changes that take place during puberty. I can interpret observations given, to categorise the changes during adolescence. I can interpret observations given, to categorise the changes during adolescence. I can explain how difference between adolescence and puberty. I can explain the difference between adolescence and puberty. I can explain the difference between adolescence and puberty. I can explain the difference between adolescence and puberty. I can explain the main structures of the main structures of the changes during puberty. I can explain the main structures in the male and female reproductive systems in a table. I can extract information from text to describe structures and functions of the key parts of the reproductive systems in a table. I can extract information from text to explain structures and functions of the key parts of the reproductive systems in a table. I can describe some causes of infertility and how these main structures and functions of the key parts of the reproductive systems in a table. I can describe some causes of infertility and how t	Lesson	KS2	Year 7	Year 8	Year 9
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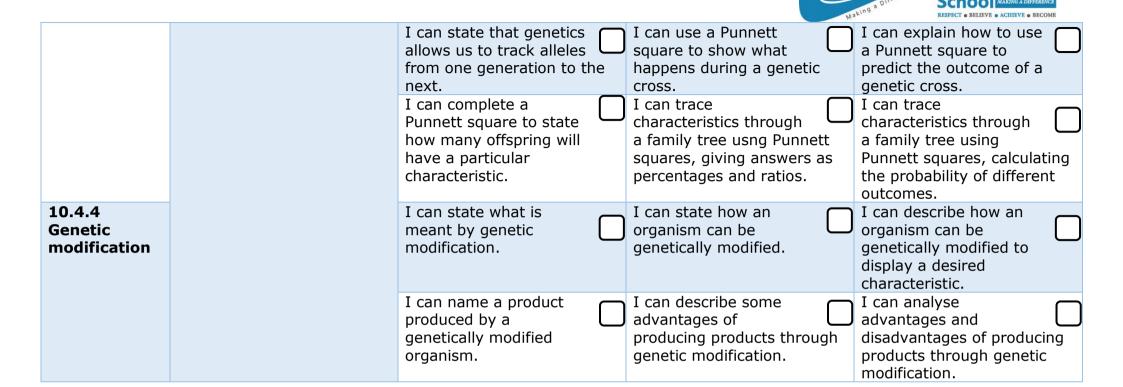




Lesson	KS2	Year 7	Year 8	Year 9
10.3.1 Natural selection	I can describe how living things are classified into broad groups according to	I can state how survival rates differ for successful adaptation.	I can describe the process of natural selection.	I can explain how natural selection leads to evolution.
	common observable characteristics and based on similarities and differences, including microorganisms, plants and animals I can give reasons for classifying plants and animals based on specific	I can state that organisms have changed over time, giving examples.	I can describe how organisms evolve over time.	I can explain how scientists know that organisms have changed over time.
		I can create a simple evolutionary sequence.	I can create an evolutionary family tree, justifying the route chosen in the tree.	I can create an evolutionary family tree, and present reasoned arguments to justify the structure of the tree.
10.3.2 Charles Darwin	characteristics I can recognise that living	I can state what is meant by peer review.	I can describe the process of peer review.	I can explain the importance of peer review to scientists.
	things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago	I can name the process by which organisms evolve.	I can describe the evidence that Darwin used to develop his theory of natural selection.	I can explain how Darwin used the evidence from finches to develop his theory of natural selection and evolution.
10.3.3 Extinction	•	I can state what is meant by the term extinct.	I can describe some factors that may lead to extinction.	I can explain some factors that may have led to extinction.
		I can state what is meant by biodiversity.	I can use examples to describe the difference between an area of high biodiversity and an area of low biodiversity.	I can explain how a lack of biodiversity can affect an ecosystem.
		I can extract information from scientific text about a possible theory for dinosaur extinction.	I can interpret evidence provided in scientific texts to explain the most likely theory for dinosaur extinction.	I can interpret evidence provided in a range of scientific texts to explain the most likely theory for dinosaur extinction.



10.3.4 Preserving biodiversity		I can state what is meant by an endangered species.	I can describe what is meant by captive breeding.		I can explain some of the advantages and disadvantages of captive breeding.	
		I can name one way of protecting endangered species.	I can describe some techniques used to prevent extinction.		I can explain how the techniques used to prevent extinction work.	
		I can identify simple patterns in data.	I can use data from a graph to describe the effect of Project Tiger on local tiger population.	the	I can link ideas given in the text to explain data presented in a graph.	
Lesson	KS2	Year 7	Year 8		Year 9	
10.4.1 Inheritance	NO2	I can state what is meant by DNA.	I can describe the relationship between DNA, genes, and chromosomes.		I can explain how a change in DNA may affect an organism.	
		I can state what is meant by a chromosome.	I can describe how chromosomes from both parents combine to form offspring.		I can explain how a change in DNA may affect the future offspring an organism.	of
		I can state what is meant by a gene.	I can state what is meant by a mutation.		I can explain why gametes have 23 chromosomes, but normal body cells contain 46 chromosomes.	al
10.4.2 DNA		I can build a model of the DNA molecule.	I can describe the structure of DNA.		I can explain why it is important for scientists to work together.	
		I can name four scientists who worked on the structure of DNA.	I can describe how scientists worked together to discover the structure of DNA.			
10.4.3 Genetics		I can state what is meant by an allele.	I can describe the difference between dominant and recessive alleles		I can explain how dominant or recessive alleles can be expressed as external features	



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