

Biology

	Cells and Organisation	Skeletal and Muscular systems	Nutrition and Digestion	Gas Exchange	Reproduction	Health	Photosynthesis	Cellular Respiration	Ecology	Inheritance and DNA
Band 1	I can STATE that cells are the fundamental unit "building block" of organisms	I can STATE that some muscles may be stronger than others	I can list the contents of a healthy human diet				I can STATE that plants get water and minerals and water from the soil via their roots			
Band 2	I can NAME some equipment that may be used to observe cells			I can NAME some tissues and organs in the human gas exchange system	I can NAME some tissues and organs in the human reproductive systems	I can STATE that drugs affect health	I can STATE that almost all life on Earth depends on photosynthetic organisms		I can STATE that all organisms in an ecosystem may affect each other and are affected by their environment	I can STATE that genetic information is inherited
Band 3	I can STATE that the process by which material moves into and out of cells is diffusion	I can identify parts of the skeletal and muscular system	I can NAME some tissues and organs in the human digestive system		I can NAME some tissues and organs in the reproductive systems of plants	I can list some effects of recreational drugs on behaviour, health and life processes	I can list the reactants and products of photosynthesis	I can STATE there is respiration that requires oxygen and respiration that does not		
	I can list some tissues and organs									
Band 4	I can list the main parts of cells	I can describe the individual functions of parts of the skeletal and muscular system	I can describe the functions of some tissues and organs in the human digestive system	I can STATE what happens to the air, ribs and diaphragm during breathing	I can describe the functions of some tissues and organs in the human reproductive systems	I can describe some effects of recreational drugs on behaviour, health and life processes	I can STATE that plants exchange gases via the stomata in their leaves	I can STATE that organisms release energy from carbohydrates by respiration	I can interpret simple food chains	I can STATE that due to variation, some individuals within a species will compete more successfully
	I can describe a tissue, and organ and an organ system			I can describe the functions of some tissues and organs in the human gas exchange system	I can describe the stages of pregnancy and birth		I can STATE that plants make carbohydrates in their leaves by photosynthesis	I can NAME the two types of respiration (aerobic and anaerobic)	I can describe how a change in the numbers of one organism may affect another	I can STATE that all organisms show variation, both within a species and between species
	I can describe how multicellular organisms are organised (cells, tissues, organs, organ systems, organisms)					I can describe the functions of some tissues and organs in the reproduction systems of plants		I can LIST the reactants and products of aerobic and anaerobic respiration		I can STATE that gene banks are important in maintaining biodiversity

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Band 5	I can identify the structural adaptations of some unicellular organisms	I can describe methods of measuring the force from muscles	I can describe why parts of a healthy human diet are needed	I can describe changes in lung volume during breathing	I can describe the stages of the menstrual cycle		I can summarise the reactants and products of photosynthesis using a word equation	I can describe some applications of aerobic and anaerobic respiration	I can interpret food webs	I can define biodiversity
	I can describe the structural adaptations of some animal and plant cells				I can describe methods of seed and fruit dispersal		I can describe some adaptations of plants leaves		I can describe how organisms may be affected by their environment	I can describe how more successful competition can result in extinction
	I can describe the process of diffusion									I can describe how variation is caused by inherited and environmental factors
	I can identify parts of cells from a diagram									I can describe the role of DNA, genes and chromosomes in
	I can describe the functions of the main parts of cells									
	I can suggest how the rate of diffusion may be affected									
Band 6	I can compare and contrast animal and plant cells	I can explain why some muscles may need to be stronger than others	I can explain the consequences of imbalances in the diet	I can describe the impact of exercise, asthma and smoking on the human gas exchange system	I can discuss the impact of maternal lifestyle on the foetus	I can explain some effects of recreational drugs on behaviour, health and life processes	I can explain why almost all life on Earth depends on photosynthetic organisms	I can summarise the reactants and products of aerobic and anaerobic respiration using word equations	I can explain how a change in the numbers of one organism may affect another, with reference to competition and predation	I can explain that variation can be continuous or discontinuous, including the use of data
		I can explain how parts of the skeletal and muscular system work together	I can explain how digestion happens, with reference to enzymes	I can explain how structures in the human gas exchange system are adapted to their functions	I can explain how gametes are involved in fertilisation		I can explain how some structural adaptations of plants leaves aid photosynthesis	I can compare and contrast aerobic and anaerobic respiration	I can explain how organisms may be affected by their environment, with reference to adaptations	I can describe how gene banks may be used to maintain biodiversity
				I can explain how ventilation occurs with reference to pressure changes						

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Band 7		I can explain the function of antagonistic muscle pairs	I can make calculations of energy requirements in a healthy daily diet		I can investigate methods of dispersal mechanisms quantitatively	I can evaluate some effects of recreational drugs on behaviour, health and life processes	I can link the importance of photosynthetic organisms to maintaining levels of oxygen and carbon dioxide in the atmosphere		I can discuss the importance of insect pollination and plant reproduction, with reference to human food security	I can discuss the roles of Watson, Crick, Wilkins and Franklin in the discovery and development of the DNA model
										I can explain how variation and environmental pressures can drive natural selection and lead to evolution
										I can explain the use of gene banks to maintain biodiversity and preserve hereditary material
Band 8		I can suggest how artificial parts of the skeletal and muscular system may affect an individual	I can discuss the benefits of bacteria in the human digestive system	I can interpret data about and evaluate the impact of exercise, asthma and smoking on the human gas exchange system	I can make links between the menstrual cycle, fertilisation and infertility problems			I can evaluate the implications of aerobic and anaerobic respiration for organisms		
Band 9					I can evaluate some methods used to resolve infertility problems				I can evaluate the impact of humans on other organisms, with reference to the accumulation of toxic materials	