

Biology Key Stage 3 Assessment Criteria

	Year 7	Year 8
“Exceeding” Evaluating Judging Hypothesising Creating	Cells I can explain the process that occurs in chloroplasts. Reproduction I can explain how the different parts of the male and female reproductive system work together to achieve certain functions. I can explain in detail how contractions bring about birth. I can evaluate some methods used to resolve infertility problems. I can make links between the menstrual cycle, fertilisation and infertility problems. I can discuss the impact of maternal lifestyle on the foetus. Muscles and Bones I can suggest how artificial parts of the skeletal and muscular systems may affect an individual. Ecosystems I can evaluate the impact of humans on other organisms, with reference to the accumulation of toxic materials. I can describe the stages of the menstrual cycle as a timed sequence of events. I can explain how energy is lost in food chains. I can interpret and draw pyramid of numbers. I can explain the effects of some persistent pesticides on top predators.	Food and Digestion I can link adaptations of different parts of the digestive system to their functions. I can discuss the benefits of bacteria in the human digestive system. Sexual reproduction in plants I can discuss the importance of insect pollination and plant reproduction, with reference to human food security. I can explain the processes of wind and insect pollination comparing the similarities and differences between the two. I can explain how the germination of seeds occurs. Breathing and Respiration I can evaluate the implications of aerobic and anaerobic respiration for organisms based on the reactants and products. I can explain how ventilation occurs with reference to pressure changes and measuring lung volume. I can interpret data about and evaluate the impact of exercise, asthma and smoking on the human gas exchange system. Unicellular Organisms I can explain the structure and function of euglena.
“Securing” Analysing Differentiating Organising Attributing	Cells I can compare and contrast animal and plant cells. I can explain the process of diffusion. I can suggest how the rate of diffusion may be affected. Reproduction I can explain the sequence of fertilisation and implantation. I can describe accurately the sequence of events during gestation. Muscles and Bones I can describe the structural adaptations of some animal and plant cells. I can describe the function of different components in blood. I can explain some effects of recreational drugs and substance misuse on behaviour, health and life processes. Ecosystems I can describe and explain how organisms may be affected by their environment, with reference to adaptations. I can explain how a change in the numbers of one organism may affect another, with reference to competition and predation. I can explain how adaptations increase the chances of survival for organisms.	Food and Digestion I can make calculations of energy requirements in a healthy daily diet. I can explain how digestion happens, with reference to enzymes. Sexual reproduction in plants I can describe how a seed is adapted for its methods of seed dispersal. Breathing and Respiration I can summarise the reactants and products of aerobic and anaerobic respiration using word equations. I can compare and contrast aerobic and anaerobic respiration. I can describe some applications of aerobic and anaerobic respiration. Unicellular Organisms I can describe the structure and function of euglena.
“Achieving” Applying Executing Inferring Implementing	Cells I can describe the process of diffusion. I can describe the functions of the main parts of cells, including the cell wall, cell membrane, cytoplasm, nucleus, vacuole, mitochondria and chloroplasts. I can describe the structural adaptations of some animal and plant cells. I can compare and contrast animal and plant cells. Reproduction I can explain how gametes are involved in fertilisation. I describe the main structures in the male and female reproductive systems. I can describe the function of the main structures in the male and female reproductive systems. I can describe the stages of pregnancy and birth. I can describe the main stages in the menstrual cycle. Muscles and Bones I can explain how the skeletal and muscular systems work together, including antagonistic pairs. Ecosystems I can use food chains to make food webs. I can identify predators, prey, consumers, producers, herbivores and carnivores from a food chain.	Food and Digestion I can explain the consequences of imbalances in the diet (obesity, starvation and deficiency-related diseases). I can name and describe the functions of some tissues and organs in the human digestive system. Sexual reproduction in plants I can describe the process of pollination. I can describe the process of fertilisation in plants Breathing and Respiration I can state what happens to the air, ribs and diaphragm during breathing and describe changes in lung volume. Unicellular Organisms I can describe what a unicellular organism is. I can identify the structural adaptations of some unicellular organisms.

“Developing” Interpreting Classifying Summarising Explaining	Cells I can list the main parts of cells (cell wall, cell membrane, nucleus, vacuole, mitochondria and chloroplasts) and identify them from a diagram. I can accurately draw parts of cells when viewing them under a light microscope. I can describe a tissue, an organ and an organ system and describe how multicellular organisms are organised. Reproduction I can describe fertilisation. Muscles and Bones I can identify and describe the functions of parts of the skeletal and muscular systems. Ecosystems I can describe how a change in the numbers of one organism may affect another. I can list some physical environmental factors in an environment. I can use food webs to write food chains.	Food and Digestion I can outline the process of digesting food. Sexual reproduction in plants I can name and describe the functions of some tissues and organs in the reproductive systems of plants. Breathing and Respiration I can state what each part of the bell jar model represents. I can describe the impact of exercise, asthma and smoking on the human gas exchange system. Unicellular Organisms I can name methods of seed dispersal. I can identify some structures of amoeba and euglena.
“Emerging” Remembering Recognising Recalling Describing	Cells I can state that cells are the fundamental unit "building block" of organisms. I can name some equipment that may be used to observe cells. I can list some tissues and organs. Reproduction I can name and describe the functions of some tissues and organs in the human reproductive systems. I can state what is meant by fertilisation. I can state how long pregnancy lasts. I can state a simple definition of the menstrual cycle. Muscles and Bones I can state that some muscles may be stronger than others. I can list and describe some effects of recreational drugs on behaviour, health and life processes. Ecosystems I can state that all organisms in an ecosystem may affect each other and are affected by their environment. I can construct and interpret simple food chains. I can identify variation between organisms of the same and different types.	Food and Digestion I can list some nutrients. Sexual reproduction in plants I can name the parts if a flower. I can state what is meant by pollination. I can describe the methods of seed and fruit dispersal. Breathing and Respiration I can name some tissues and organs in the human gas exchange system and label a simple diagram of the human gas exchange system. I can state that organisms release energy from carbohydrates by respiration. Unicellular Organisms. I can name an example of a unicellular organism.