

Biology

Outcomes	Breathing	Digestion	Respiration	Photosynthesis	Evolution	Inheritance	On course for GCSE grade
Basic	I can explain what breathing is.	I can explain the role of the digestive system.	I can state that all living things respire to produce energy.	I can state what photosynthesis is.	I can state that evolution is a theory that animal and plant species have descended from species that lived in the past.	I know that inherited characteristics are the result of genetic information carried in sections of DNA.	1-3
Adequate	I can name the parts of the lung and their role in breathing.	I can name the nutrients needed for a balanced diet.	I can explain why all living things need to respire.	I can use a word equation to describe photosynthesis in plants and algae.	I can use evidence to explain why a species has become extinct or has adapted to changing conditions.	I can use a diagram to show the relationship between DNA, chromosomes and genes.	3-5
Secure	I can explain how exercise and smoking affect the respiratory system.	I can explain the events that take place in order to break down a meal into simple food molecules.	I can use word equations to describe aerobic and anaerobic respiration.	I can explain why other organisms are dependent on photosynthesis.	I can explain the stages of natural selection.	I can use a diagram to show how genes are inherited.	4-6
Advanced	I can explain how changes in volume and pressure inside the chest move gases in and out of the lungs.	I can describe how the organs of the digestive system are adapted to their role.	I can explain how specific activities involve aerobic and anaerobic respiration.	I can describe the ways in which plants obtain resources for photosynthesis.	I can explain how a lack of biodiversity affects an ecosystem.	I can explain why offspring from the same parents look similar but are not usually identical.	6-8
Excelling	I can predict how a change in the gas exchange system could affect other processes in the body.	I can design a diet for somebody with specific dietary needs.	I can describe the similarities and differences between aerobic and anaerobic respiration.	I can suggest how particular conditions could affect plant growth.	I can predict and explain the changes in a population over time due to natural selection.	I can suggest some of the benefits of scientists knowing all the genes in the human genome.	7-9