

	End of KS2	Year 7	Year 8	Year 9	Year 10	Year 11
BIOLOGY Knowledge and Understanding	I can recall simple scientific facts	I can recall some scientific facts in context	I am able to recall scientific facts and apply scientific ideas	I am able to demonstrate knowledge and understanding of scientific ideas	I am able to apply knowledge and understanding of scientific ideas	I am able to apply knowledge and understanding of scientific ideas to unusual contexts
	e.g. I can recall some simple adaptations such as gills or camouflage	e.g. I can <u>link how</u> certain adaptations lead to increased survival rates for a species	e.g. I can predict the adaptations you would expect organisms to have when given the description of an environment	e.g. I can link the process of Natural Selection to evolution and adaptations	e.g. I can explain how a process such as evolution through means of Natural Selection leads to particular adaptations in a species	e.g. I can apply the theory of Natural Selection in order to explain the evolution of an organism that was previously unknown to me
CHEMISTRY Knowledge and Understanding	I can recall simple scientific facts	I can recall some scientific facts in context	I am able to recall scientific facts and apply scientific ideas	I am able to demonstrate knowledge and understanding of scientific ideas	I am able to apply knowledge and understanding of scientific ideas	I am able to apply knowledge and understanding of scientific ideas to unusual contexts
	e.g. I can recall that all substances are made from atoms	e.g. I can state that atoms bond to form elements and compounds	e.g. I can state that the structure of a substance depends on the elements it is made from	e.g. I can link the type of bonding in a substance to the elements it is made from	e.g. I can explain the state of a known substance at room temperature using knowledge of structure and bonding	e.g. I can apply knowledge of structure and bonding to explain the state of a previously unknown compound at room temperature

PHYSICS Knowledge and Understanding	I can recall simple scientific facts[1]	I can recall some scientific facts in context	I am able to recall scientific facts and apply scientific ideas.	I am able to demonstrate knowledge and understanding of scientific ideas	I am able to apply knowledge and understanding of scientific ideas	I am able to apply knowledge and understanding of scientific ideas to unusual contexts
	e.g. I can recall different energy stores and name different forces	e.g. I can describe the types of energy stores an object has depending on their properties, movement and position	e.g. I can describe the energy transfers involved when an object changes velocity or position	e.g. I can link the energy transfers in an object to the forces applied to it	e.g. I can explain the relationship between the frictional force of breaking and energy transfers in a car	e.g. I can apply knowledge of forces and energy transfers to explain the changes in energy stores in scenarios previously unknown to me
Working Scientifically	I can take measurements and present data	I am able to follow the method for a simple investigation, take measurements, present data and identify basic patterns and relationships	I am able to demonstrate the ability to design a simple investigation, take measurements, present data and identify basic patterns and relationships	I am able to demonstrate knowledge and understanding of scientific techniques and procedures	I am able to apply knowledge and understanding of scientific enquiry, techniques and procedures	I am able to apply and transfer knowledge and understanding of scientific enquiry, techniques and procedures to unusual contexts