

	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.	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 braking 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.