

Assessment Guidance

You will be assessed on the three different disciplines of science; Biology, Chemistry and Physics. You will have three tests that will last for 35 minutes each. The assessment will include a range of questions, including some multiple choice questions, some short answer questions and some questions which require longer answers. To access the highest marks for your test, use as many key scientific words as possible.

Equipment you will need: pen, pencil, calculator, ruler.

	Lesson title	Success criteria	check
Year 7: Biology - cells	Using a microscope to see plant cells	I can use a microscope to view samples	
		I can name the parts of a microscope	
		I can make a microscope slide with onion skin on it	
		I can look at onion skin cells under the microscope	
	What do other cells look like?	I can correctly label animal & plant cells	
		I can say what each part of the cell does.	
		I can list the similarities & differences between animal and plant cells.	
		I can give examples of specialised cells & say what they do	
	What's in Blood?	I can identify the components that make up blood.	
		I can describe the function of the components of blood.	
		I can explain what diffusion is and give an example.	
	Tissues, Organs & Organ Systems	I can name different organs on a diagram;	
		I can match name & diagram/picture (of organs) to their functions	
		I can match organ systems to their functions	
	Messages around the body	I can say what a nerve cell look like & what the parts are called.	
		I can say how nerves send messages around our bodies.	
I can identify the main glands on a diagram.			
I can match examples of hormones to the glands that make them.			
Unicellular and other simple organisms	I can give an example of an organism that is unicellular& say what is special about it		
	I can say what diffusion is & give an example		
Year 7: Chemistry - Properties of Matter	What is everything made of?	I can describe the properties of solids, liquids and gases	
		I can classify substance as either a solid, liquid or gas based upon their properties	
		I can relate the properties of solids, liquids and gases to their uses	
		I can draw a diagram to represent the arrangement of particles of solid, liquids & gases	
		I can describe, using the particle model the layout, closeness and movement of particles in solids, liquids and gases	
	What happens when materials change?	I can recall the names of the individual processes in changing state	
		I can describe the changes in state using the particle model	
		I can draw heating & cooling curves	
		I can interpret information from heating & cooling curves	
	What's a pure substance?	I can define a pure & impure substance scientifically	
		I can recall and define what is meant by a mixture	
		I can describe & explain the process of dissolving using key scientific language	
		I can discuss diffusion in terms of the particle model	

	How can mixtures be separated?	I can recall the definition of a mixture	
		I can give examples of separation methods	
		I can describe & explain how these methods are used	
		I can use these methods to separate a given mixture	
	How can we use chromatography?	I can recall that chromatography can be used to separate mixtures	
		I can describe the process of chromatography using key scientific terms	
		I can use chromatography effectively	
		I can interpret chromatograms	
	How do Scientists know which method to use?	I can select which is the best method to use	
		I can plan an experiment using this method	
		I can use this plan to produce clean water	
	Year 7: Physics - Energy	Energy stores	I can name several different forms of energy that energy can be stored or transferred
I can give examples of everyday processes where energy is transferred.			
I can draw energy transfer diagrams for a range of changes.			
I can use the idea of conservation of energy in my descriptions of energy transfer.			
Fuel		I can explain the difference between renewable and non-renewable energy sources	
		I can give examples of fossil and renewable energy sources	
		I can evaluate different energy sources	
		I can	
Food as fuel		I can explain how we can trace back the energy we get from fuels to the Sun	
Fossil fuel		I can name different types of fuel.	
		I can classify coal, gas and oil as fossil fuels.	
		I can draw an energy transfer diagram to show changes involved in formation and combustion of coal and of oil.	
Renewable energy		I can describe solar, wind, wave etc. as examples of renewable energy sources.	
		I can describe problems associated with burning carbon based fuels as energy sources.	
		I can carry out an investigation into the energy output of solar cells.	
		I can use results and those from previous lessons to comment on the advantages and disadvantages of solar power	
living sustainably		I can use ideas related to sustainability to suggest fossil fuel dependency should be reduced.	
		I can describe alternative energy resources to fossil fuels.	
		I can explain where the original source of energy comes from for several renewable energy resources.	