

Year 8 Science REVISION CHECKLIST. Winter

As you begin your revision, complete this honestly to help you see where your priorities should lie for your revision. The target is eventually to get all your ticks in the left hand column.

I CAN:	☺	☹
State the names of the main areas of Science.		
List some activities which are carried out in Science.		
Give examples of jobs Scientists do		
Label and correctly spell the parts of a Bunsen burner.		
Light a Bunsen burner safely.		
Draw a conclusion from our observations in an experiment.		
Accurately draw the symbols for apparatus used in KS3 Science.		
Correctly spell the names for this apparatus.		
Identify and locate the apparatus around the Science laboratory.		
Understand the importance of units when recording measurements.		
Choose appropriate scientific apparatus to make basic measurements.		
Use basic measurement apparatus to make accurate measurements.		
List in order the main processes of the scientific method		
Plan a simple experiment using the scientific method		
Discuss the meaning of a fair test and plan a fair test experiment		
List the main things to be included in an experiment write up.		
Briefly describe an experiment to investigate how water boils.		
Know when to use a line graph to represent our results		
Successfully draw a line graph		
Know when to use a bar graph to represent our results		
Successfully draw a bar graph		
State 10 safety rules of a Science lab		
Identify Hazard symbols		
Carry out a risk assessment		
Describe what happens when some substances are heated or cooled		
Understand the idea of reversible change		
Distinguish between reversible and irreversible changes		
Explain that some substances are soluble and some are insoluble		
Know that that insoluble substances can be separated by filtering		
Explain how that soluble substances can be recovered by evaporation		
Understand that some changes are reversible		
Know the steps necessary to obtain pure salt from rock salt		
Give the definitions of the words used in the preparation of pure salt		

Explain that when materials are mixed changes can happen		
Know the relevance of chemical changes in everyday products.		
Know that when materials burn a flame can be seen		
Understand that heat causes chemical changes		
Know that new substances are formed in a chemical change, some of which may be invisible		
Understand that fire happens when a material burns		
Know that fire needs oxygen, fuel and heat energy and that fires can be put out by removing one of these essential things		
Explain the importance of sensible precautions when dealing with anything which may cause a fire to go out of control		
Recognise living things		
List the seven characteristics of living things		
Know that all living things are made of cells		
Label the parts of an animal and a plant cell and describe their functions		
Identify similarities and differences between plant and animal cells		
Prepare an onion slide		
Label a microscope and develop practical skills using microscopes		
List and describe some specialised animal and plant cells		
Work out the magnification of a microscope		
Recognise that similar cells make up tissues, tissues make up structures called organs and they work together in organ systems		
Identify the main organs of the organ systems and describe their functions		
Relate the body systems to the characteristics of life.		