



Year 8 Science Revision Checklist



Exploring Energy		
Learning Outcomes	Do you know...	✓
1 - 5	The 8 types of energy?	
	The law of conservation of energy?	
	What waste energy is? Can you give examples?	
6 - 10	The unit of energy?	
	How energy can change from one type to another. Can you give examples?	
	The difference between “types of energy” and “energy resources”?	
	What polluting and non-polluting energy resources are. Can you list examples of each?	
11 - 15	What renewable and non-renewable energy resources are. Can you list examples of each?	
	Why renewable resources are needed?	
16 - 18	What a carbon footprint means?	
	How to increase or decrease a carbon footprint?	

Healthy Body and Mind		
Learning Outcomes	Do you know...	✓
1 - 5	The type of energy in food?	
	Where the energy in food comes from?	
	What energy is needed for?	
6 – 10	The three macronutrients?	
	Who needs the most energy? Why is this?	
	The recommended alcoholic limits?	
11 - 15	The effects of alcohol consumption?	
	Why some people are more at risk from alcohol?	
	What binge drinking is and why it is dangerous?	
16-23	The name and position of the six lobes of the brain?	
	What each side of the brain does?	
	Three food which are good for your brain?	
	The three learning styles are?	

Solids, Liquids and Gases		
Learning Outcomes	Do you know...	✓
1 – 5	The three states of matter?	
	The shape and volumes of the states of matter?	
	The properties of the states of matter?	
	Matter is made up of tiny pieces?	
6-7	The difference between an atom and a molecule?	
8 - 10	How particles are arranged in each state of matter?	
	The changes of state? Can you name them all?	
	Is energy given or taken away for each change of state?	
11 – 15	What a melting point is?	
	What a boiling point is?	
	What diffusion is?	
	The experiments to show diffusion happening?	
16 – 20	How solids, liquids and gases expand?	
	The expansion experiments for each state of matter?	
	Different materials can expand by different amounts?	
	Where expansion can cause problems?	
	How solids, liquids and gases can contract?	
21 – 22	What air pressure is?	
	How does air move when there are different air pressures?	
23 –27	What density is? What is it defined as?	
	The experiment to measure the density of a regular solid?	
	The experiment to measure the density of an irregular solid?	
28	The experiment to find the density of air?	
29 - 30	The experiment to measure the density of a liquid?	
	Why objects float or sink?	

You will also be required to have knowledge of Tables and Keys for this exam. Can you use both a statement key and a branching key? Do you remember the success criteria for drawing a table? Have a look back over p26-31 of your being a scientist topic if you need some help.

Don't forget to prepare the equipment for your exam too!

You should bring:

- 2 Pens
- Pencil
- Rubber
- Ruler
- Calculator

