Year 8 Science Revision Checklist

Being a Scientist Check you are able to carry out each of the following scientific skills;		
Skill	**Page in booklet**	✓
Drawing scientific apparatus	p11-12	
Reading Scales	p15	
Reading Keys	P27-29	
Drawing tables	p30-31	

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 in the human body?	
6 – 10	Name the three macronutrients	
	Who needs the most energy? Why is this?	
	The recommended alcoholic limits?	
11 - 15	The short-term and long-term effects of alcohol consumption?	
	Why some people are more at risk from alcohol?	
	What binge drinking is and why it is dangerous?	
	What type of drug alcohol is	
16-23	The name and position of the six lobes of the brain?	
	What each side of the brain does?	
	Three foods which are good for your brain?	
	The three learning styles?	

24-26	What gametes are?	
	Explain the term fertilisation? Two types?	
28-34	Do you know all the parts of the male reproductive system?	
	Do you know all the parts of the female reproductive system?	
	Can you name the function of each part?	
	What ovulation is?	
	Where fertilisation and implantation occur?	
35-38	What happens during the menstrual cycle?	
	What happens during puberty?	
	What contraception is and state several examples?	

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 causes air pressure?	
	What direction does air pressure move?	
23 –27	What density is? What is it defined as?	
	The experiment to measure the density of a regular solid?	
	How to find the volume of an irregular solid using a measuring cylinder or displacement can?	
27 - 30	Can you remember that **Density=Mass/Volume**	
	Why do objects float?	

Don't forget to prepare the equipment for your exam too!
You should bring:

- ☐ 2 Pens
- ☐ Pencil
- ☐ Rubber
- ☐ Ruler
- ☐ Calculator