Year 7 Science Vocabulary List

(Tier 2 and Tier 3)



- 1. Acid A substance that has a pH value between 1-6.
- 2. Alkali A substance that has a pH value between 8-14.
- **3.** Atom The smallest particle of an element and the most basic unit of matter. Everything is made up of atoms.
- **4. Beaker -** A glass container with a pouring lip. Used to hold, mix or heat substances.
- **5. Bunsen burner -** A device for combining a flammable gas with controlled amounts of air to produce a flame.
- 6. Cell membrane The outer layer that surrounds the cell and controls which substances can pass into and out from it.
- **7.** Cell wall A tough outer layer of the cell, which contains cellulose to provide strength and support. Not found in animal cells.
- 8. Compound A substance that is made from more than one element that are chemically bonded together. They are difficult to separate.
- **9.** Control variable The variables that are kept the same during a scientific experiment.
- **10. Cytoplasm -** A jelly-like substance in cells where chemical reactions happen.
- **11. Dependent variable -** The variable being measured during the experiment.
- **12. Element -** A substance that cannot be broken down into any other substance and is made up of only one type of atom.
- **13. Friction -** A contact force which acts against the movement of an object.
- **14. Independent variable -** The variable that is being changed during the experiment.
- **15. Indicator -** A chemical that can show if a substance is acidic or alkaline by changing colour.
- **16. Length -** A measurement, which identifies the distance between two points, measured in metres (m).
- **17. Magnification -** A measure of the size of an image compared to the size of the object.
- **18. Mass -** A measure of the amount of matter an object is made from, measured in grams (g) or kilograms (kg).
- **19. Measuring cylinder -** A container used to measure volumes of liquid.
- **20. Microscope -** An instrument used to magnify small objects.
- **21. Mitochondria -** An organelle that releases energy through aerobic respiration.
- 22. Neutral A substance that is neither acidic nor alkaline. It has a pH of 7.

- **23.Nucleus -** An organelle which controls what happens in the cell. It contains DNA.
- **24. Observation -** The use of your senses to gather information.
- **25.Organelle -** Small organ-like structures that you can find inside of cells. They each have a specific function or job.
- **26. Prediction -** Using scientific evidence to suggest what you might observe in an experiment and what your results may look like.
- 27. Temperature How hot a substance is. Measured in degrees Celsius (°C).
- **28. Volume -** The amount of space a 3D shape takes up. You can work out the volume of a shape by multiplying height × width × depth.