

## AW3 Science Revision Lists

### Year 8

#### Cells

You should be able to:

- Label parts of an animal cell
- Label parts of a plant cell
- Give the function of the parts of a cell
- Know how to get from a cell to an organism
- Recognise specialised cells
- Describe How to use a microscope

#### States of Matter

You should be able to:

- Draw diagrams of 3 states of matter
- List properties of 3 states of matter
- Changing state - keywords and how it happens
- Examples of states e.g. particles in a balloon,
- Identifying states at room temp from boiling/melting points

#### Elements & Periodic Table

You should be able to:

- Recall and describe properties of metals
- Recognise Elements, compound & mixture diagrams
- Describe Iron/Sulphur example of mixture vs compound

#### Earth & Space

You should be able to:

- Recall order of planets
- Explain how seasons happen
- Describe how an eclipse happens
- Explain how orbits are affected by their size/distance

## Year 9

### Body Systems

You should be able to:

- Label a diagram of the lungs
- Explain how gas exchange occurs
- Describe the composition of inhaled vs exhaled air
- Recall the different types of joints
- Describe how each type of joint works

### Acids & Alkalis

You should be able to:

- Recall what an indicator is
- Describe the colour scheme for Universal indicator
- Give examples of strong/weak acids & alkalis
- Explain how to carry out a neutralisation experiment

### Energy

You should be able to:

- Recall and recognise the different types of energy
- Recall the conservation of energy
- Label Energy transfer diagrams
- Describe conduction, convection, radiation

### Separating Techniques

You should be able to:

- Know the 4 experiments – Filtration, Evaporation, Distillation & Chromatography
- Recall Keywords

### Forces

You should be able to:

- Recall types of forces
- Distinguish between Contact & Non-Contact Forces
- $\text{Weight} = \text{Mass} \times \text{Gravity}$
- Resolving Forces
- Explain how a parachute works

## Year 10

### Health & Lifestyle

You should be able to:

- List types of nutrients
- Recall food tests
- Label Digestive System
- Explain how an enzyme works

### Chemical Reactions

You should be able to:

- Know & recognise the difference between physical and chemical change
- Recall Chemical formula
- Describe experiments – thermal decomposition, conservation of mass

### Electricity

You should be able to:

- Recall & draw circuit symbols
- Draw circuits
- Describe the difference between series & parallel circuits
- Describe/Explain how static electricity works
- Apply knowledge to examples of static electricity

### Light

You should be able to:

- Recall the properties of light
- Draw diagrams of Reflection, Refraction & Dispersion
- Recall the laws of reflection
- Recall why refraction happens
- Explain why we see objects as certain colours