**Year 10 Christmas Revision List**

**UNIT 15-Yr 9 and Unit 27-Yr 10**

1. Elements

* Know common elements
* Know symbols for common elements

1. The Periodic Table

* Know where to find metals and non-metals
* Know properties of metals
* Know properties of non-metals
* Recognise groups and periods
* Know where most reactive elements are found in the groups

1. Compounds

* Be able to name compounds using formulae
* Recognise the elements present in a compound using formulae
* Know the number of each element present in a compound using formulae
* Recognise elements, compounds and mixtures from particle diagrams
* Recognise atoms and molecules from particle diagrams
* Know how to make a metal oxide compound.
* Be able to write a word equation for a metal oxide.
* Know the products formed when a metal oxide reacts with acid.

1. Reactivity

* Know the reactivity series for metals
* Give examples of displacement reactions
* Write simple word equations for displacement reactions
* Write simple chemical equations for displacement reactions

1. Separating Mixtures

* Filtration
* Evaporation
* Distillation
* Chromatography
* Using magnets to separate iron filings from sulphur

1. Simple word equations
2. Simple chemical equations

**Unit 7 Growing Up-Yr10**

1. Male reproductive system
2. Female reproductive system
3. Process of fertilisation
4. Development from conception to birth
5. Function of placenta
6. Function of uterus
7. Function of fluid sac
8. The birth of the baby
9. The needs of a baby in the uterus and outside the uterus
10. How to ensure a healthy pregnancy
11. Changes to male during puberty
12. Changes to female during puberty
13. The female menstrual cycle

**Unit 33 (Variation)-Yr10**

1. Inherited and environmental characteristics
2. Clear cut and gradual characteristics
3. Chromosomes, genes and DNA
4. How characteristics are inherited
5. What is Selective breeding?
6. Examples of plants and animals that are selectively bred.
7. Artificial insemination
8. Embryo transplants

**Unit 8 (Electricity and Magnetism)-Yr8**

1. Series circuits
2. Parallel circuits
3. Circuit symbols (cell, lead, bulb, switch, buzzer, voltmeter, ammeter, variable resistor)
4. How to draw circuit diagrams
5. Be able to analyse circuit diagrams
6. Diagram of a plug
7. How to wire a plug
8. Purpose of a fuse
9. Purpose of a variable resistor
10. How to increase and decrease brightness of bulbs in circuits.
11. Magnetic field lines around a bar magnet and in a horseshoe magnet.
12. What materials attract a magnet?
13. How to make an electromagnet?
14. How to increase the strength of an electromagnet?

Unit 16 (Food and Digestion)

1. Diagram of the digestive system
2. How starch is broken down by the enzyme amylase?
3. How protein is broken down by the enzyme protease?
4. How fats are broken down by the enzyme lipase?
5. Where is amylase found in the digestive system?
6. Where is protease found in the digestive system?
7. Where is lipase found in the digestive system?
8. Where is water absorbed?
9. Where is digested food absorbed?
10. What happens to undigested food?
11. Test for starch
12. Test for fat
13. Test for protein
14. The structure of a tooth
15. Types of teeth
16. Numbers of each tooth
17. What is meant by temporary teeth and how many?
18. What is meant by permanent teeth and how many?
19. Describe what happens to the tooth during decay?
20. What causes decay?
21. How we can look after our teeth?

Unit 4 Forces

1. What is a force?
2. Know that forces are measured in Newtons
3. Balanced forces
4. Be able to work out resultant forces
5. Know why things float or sink
6. Know the meaning of up thrust and drag.
7. Be able to draw force diagrams.