** CURRICULUM MAP - Science**

Y3

AUTUMN 1 –

B1 – Cells

C1 – Particles and their behaviour

SPRING 1 –

C2 – Elements, atoms and compounds

P2 - Sound

SUMMER 2 –

P4 – Space

Revision

SPRING 2 –

B3 – Reproduction

C3 - Reactions

SUMMER 1 –

P3 - Light

C4 – Acids and alkalis

AUTUMN 1 –

B1 – Health and Lifestyle

C1 – The periodic table

AUTUMN 2 –

P1 – Electricity and magnetism

B2 – Biological processes

SPRING 1 –

C2 – Separation techniques

P2 - Energy

SPRING 2 –

B3 - Ecosystems and adaptation

C3 – Metals and other materials

SUMMER 1 –

P3 -Motion and pressure

B4 – Inheritance

SUMMER 2

C4 – The Earth

Revision

AUTUMN 1 –

B1 – Cells

C1 – Particle model and state change

AUTUMN 2 –

P1 – Forces and motion

B2 – Cell systems

SPRING 1 –

C2 – Atoms and periodic table

P2 - Energy

SPRING 2 –

B3 – Fertilisation and implantation

C3 – Chemical changes

SUMMER 1 –

P3 Waves, Sound and light

B4 – Variation and natural selection

SUMMER 2 –

C4 – Useful chemical reactions

P4 – Electricity and magnetism

AUTUMN 1

AQA GCSE Combined Science Trilogy

C1 Atomic Structure

B1 Cell Biology

AUTUMN 2

C2 Structure and Bonding

P1 Energy

SPRING 1

C3 Quantitative Chemistry

B2 Organisation

SPRING 2

C4 Chemical Changes

P2 Circuits

SUMMER 1

C5 Energy Changes

B3 Infection and Response

SUMMER 2

C6 The Rate and Extent of Chemical change

P3 the particle Model of Matter

AUTUMN 1

C7 Organic Chemistry

B4 Bioenergetics

P4 Atomic Structure

AUTUMN 2

C8 Chemical Analysis

B5 Homeostasis and Response

P5 Forces

SPRING 1

C9 Chemistry of the Atmosphere

B6 Inheritance, Variation and Evolution

P6 Waves

SPRING 2

C10 Using Resources

B7 Ecology

P7 Magnetism and Electromagnetism

SUMMER 1

Revision and Examinations

SUMMER 2

Examinations

Y10

Y9

Y11

Y7

**KEY STAGE 5**

Y8

AUTUMN 2 –

P1 – Forces

B2 – Structure and function of bodily systems

AUTUMN 1

3B1 Plants - Food Technology

Flowers

How plants grow

Seeds

Plants as food

Plant Hunters

AUTUMN 2

3C1 Rocks - Geography/history stone age

Types of rocks

Fossils

Soil

Uses of rocks

Mary Anning

SPRING 1

3P1 Light – Art

Light and dark

Refection

Safety

Shadows

Edison – lightbulb

SPRING 2

3B2 Animals including Humans

Life Cycles

Animal Survival

Keeping Healthy

SUMMER 1

3P2 Forces and Magnets

Contact and non-contact forces

Magnets

Roller coasters - trip?

SUMMER 2

3HSW Minecraft Science – ICT

Gravity

Biomes

Earth resources

Electricity (redstone)

AUTUMN 1

**Biology – Grouping and Classifying Living Things –** -understanding that animals and living things can be grouped and classified

**Biology –Data Collection A**

-Understanding how to collect scientific data.

AUTUMN 2

**Chemistry -**

**States of Matter –**

-understanding the states of matter and how they can affect human and animals lives.

SPRING 1

**Physics – Sound – -**understanding how sound travels.

**Biology –**

**Data Collection B** -Understanding how to collect scientific data.

SPRING 2

**Physics –** **Electricity –** understanding the concept of electricity, including circuit diagrams and changing components within a circuit such as lightbulbs, cells and buzzers

**Sustainable - Energy –** -Understanding what sustainable energy is and how it is used in other countries compared to the UK.

SUMMER 1

**Biology – Data Collection C** -Understanding how to collect scientific data.

**Biology – Habitats** -understanding the different kingdoms of living things, including the animal kingdom and being able to draw keys to describe the relationships within animals

**Sustainability – Deforestation –** -Understanding what deforestation is doing to countries and how this can affect animals and their habitats.

SUMMER 2

**Biology – The digestive system –**-Understanding how the digestive system works and how to keep it healthy.

**Biology – Food Chains –**

-Understanding food chains and how one small change can affect everything. This will link into grouping and classifying.

AUTUMN 1

5B1Living things and their habitats

Reproduction in plants

Insects and amphibians

Birds and mammals

AUTUMN 2

5C1 Properties and changes of materials

Properties of Materials

Physical processes

Chemical processes

SPRING 1

5C2 Earth and Space

The earth in space

The sun, moon and earth

Movement of the earth

SPRING 2

5B2 Animals including humans

Gestation period

Growing up

The rest of your life

SUMMER 1

5P1 Forces

Gravity and air resistance

Friction and water resistance

Machines

SUMMER 2

5HSW Science careers

Biology based careers

Chemistry based careers

Physics based careers

AUTUMN 1

**Biology - Living things and their habitats.**

**UKS2:**

-understanding the different kingdoms of living things, including the animal kingdom and being able to draw keys to describe the relationships within animals

AUTUMN 2

**Physics – Electricity, Renewable/Sustainable Energy** understanding the concept of electricity, including circuit diagrams and changing components within a circuit such as lightbulbs, cells and buzzers

**Forces**

Gravity and air resistance

Friction and water resistance

Machines

SPRING 1

**Physics - Light/Light Pollution**

-investigations into lines of light, understanding the light pollution and what issues it can cause and what cause them and thinking about how light becomes coloured and why colour is useful in everyday life.

SPRING 2

**Biology - The Circulatory system**-Talking about the circulatory system and how it works.

**Biology - Diet, drugs and lifestyle.**-discussing human diets, animals’ diets and how this help to keep them functioning in society. Discussing how drugs can help or hinder lifestyles.

SUMMER 1

**Biology - Variation** -investigating the variations and characteristics that can be seen in both plants and humans.

**Biology - Adaptations** -investigations about the adaptations that animals, humans and plants have to make to live within a certain environment.

SUMMER 2

**Fossils**-investigating fossils, their formation and how this has happened.

**Year 7 projects**-utilising scientific skills, investigate fizzes, colour changes, property changes and energy changes to result in a selection of scientific ‘tricks’

Y5

Y4

Y6

**KEY STAGE 3**

Y3

Y7