

# Curriculum outline of content

## Year 10 Triple Science

### Autumn Term

#### **SP3. Conservation of Energy**

What is the definition of energy, what forms does Energy come in?

#### **SB2-SB3. Cells and Control and Genetics.**

How do cells multiply?

#### **SC3-SC4. Atomic Structure and Periodic Table**

What are protons, neutrons and electrons?

#### **SP4-SP5. Waves and light and electromagnetic spectrum**

What is the EM spectrum, are there any dangers and uses?

#### **SB4-Evolution and Natural Selection.**

What is evolution and how does it relate to us as human beings?

#### **SC5-SC7. Ionic covalent and types of substances**

Why are some materials stronger than others?

### Spring Term

#### **SP6. Radioactivity.**

What was the Chernobyl disaster and how has it affected life today?

#### **SB5+SB6. Health Disease and Medicine, Plant structures.**

How does the immune system help us to fight off infection? How is water transported around a plant?

#### **SC8. Acids and Alkalis**

How can we prepare copper sulphate crystals in a neutralisation reaction?

#### **SP8/9SP10/11. Forces and effects and Electricity**

How can we work out the direction of an object if it has two forces acting on it.

#### **SB7- Hormones and Animal Coordination.**

How do hormones such as insulin work in regulating blood sugar levels.

#### **SC9+ SC10-12. Calculations and Electrolytic processes, Metals and reversible reactions.**

How are metals purified?

### Summer Term

#### **SP12-13. Magnetism and Motor Effect**

How does the Earth's magnetic field affect the atmosphere?

#### **B- Consolidate Biology so far.**

#### **SC13 Transition Metals, Alloys and Corrosion. Consolidate Chemistry so far**

Was the Statue of Liberty always green in colour?

#### **P7- Astronomy.**

What evidence is there to prove the Big Bang took place?

#### **B9. Ecosystems and Material Cycles.**

How does light intensity affect the types of plants that are able to grow?

#### **C14-16 Quantitative analysis, Dynamic equilibrium and Fuel and Chemical Cells**

How do chemists ensure they make the correct volume of the products they need?

Autumn Term

- Linear assessment at the end of Autumn term (all topics within autumn term assessed)
- Practical investigation

Spring Term

End of Spring Term Year 10 PPE- E21C. Assessment on all topics from Autumn Term and Spring Term

Summer Term

- Preparation for End of Year assessment (assessment of all the content in the year)

End of Year Grade

End of Year 10 PPE- E21C. Assessment on all topics from the academic year.