

# Curriculum outline of content

## Year 10 Combined Science

### Autumn Term

#### **Conservation of Energy CP3**

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

#### **Waves CP4**

What is the difference between transverse and longitudinal waves?

#### **Light and the Electromagnetic spectrum CP5**

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

#### **Cells and Control CB2**

How do cells multiply?

#### **Genetics CB3**

Why do some of us inherit genetic diseases?

#### **Natural Selection and Genetic mutation CB4**

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

### Spring Term

#### **Atomic Structure CC3**

What are protons, neutrons and electrons?

#### **Periodic Table CC4**

Who developed the first periodic table of elements?

#### **Ionic and Covalent bonding and types of substance CC5-CC7**

Why are some materials stronger than others?

#### **Radioactivity CP6**

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

#### **Energy, Forces doing work CP7**

How do forces transfer energy?

#### **Forces and their effects CP8**

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

### Summer Term

#### **Health, disease and the development of diseases CB5**

How does the immune system help us to fight off infection?

#### **Plant structures and their functions CB6**

How is water transported around a plant?

#### **Acids and Alkalis CC8.**

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

#### **Calculations involving masses CC9**

How can we work out how much of a chemical is needed to prepare a certain amount of product?

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.