Bishop Heber High School

Subject	Year	Term
Chemistry	11	1

Topic

Chemistry –Chemical changes (Unit 4), Organic Chemistry (Unit 7)

Content (Intent)

Prior Learning (Topic) Energy Changes (Unit 5), The Atmosphere (Unit 9), Using Resources (Unit 10)

AQA GCSE Chemistry

- Unit 4 Chemical Changes - Metals and their reactivity, Reactivity of Acids, Electrolysis.
- Unit 7 Organic Chemistry - Alkanes, Alkenes, Fractional Distillation, Cracking, Polymerisation. Alcohols, Carboxylic acids, condensation polymerisation, Amino acids, DNA and other naturally occurring polymers.

Future Learning (Topic) Rates review and Equilibria (Unit 6)

What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)
Unit 7 Organic Chemistry To study hydrocarbons, their production and uses. Including Crude oil, Alkanes, Alkenes, Fractional Distillation, Cracking, Properties of Hydrocarbons, Addition Polymerisation, Alcohols, Carboxylic acids, Esters, condensation polymerisation, Amino acids, DNA and other naturally occurring polymers.	**Key Piece of work (Homework)** Pupils given a percentage and formative feedback provided. **End of topic test** Pupils given a percentage and GCSE equivalent grade. Formative feedback provided. **Year 11 Mock Exams** Pupils given a percentage and GCSE equivalent grade. Formative feedback provided.
Unit 4 Chemical Changes Reactivity of Metals, the reactivity series, redox, Metal Extraction. Reactivity of Acids: the products with metals, bases, alkalis and metal carbonates. Neutralisation and titrations. Electrolysis of compounds and the extraction of Aluminium from its ore using electrolysis. Required Practical 'Preparation of a dry soluble salt'	**Key Piece of work (Homework)** Pupils given a percentage and formative feedback provided. **End of topic test** Pupils given a percentage and GCSE equivalent grade. Formative feedback provided. **Year 11 Mock Exams** Pupils given a percentage and GCSE equivalent grade. Formative feedback provided.

How can parents help at home?

Ensure all class booklets are complete and homework submitted on time
Assist in ensuring the active use of the EDUCAKE online learning platform where each pupil is given a personal log on from their teachers.
Encourage pupils to revise for tests and exams and to create revision resources such as flash cards and posters.
Ensure all pupils have all their resources required for science lessons, including knowledge organisers, pens and calculators

Helpful further reading/discussion (including Reading and Vocabulary Lists)

Reading

AQA revision guides
AQA revision cards
EDUCAKE online learning platform.
GCSE POD
BHHS Knowledge organisers

Vocabulary Lists

Alkanes
Alkenes
Polymers
Addition Polymerisation
Cracking
Fractional Distillation
Carboxylic acids
Esters
Formulation
Condensation
Polymerisation
Electrolysis
Titration
Ore