Bishop Heber High School

Subject	Year	Term
Chemistry	10	1

Topic

Atomic Structure (Unit 1), Bonding (Unit 2)

Content (Intent)

Prior Learning (Topic) Chemistry - The Rate and Extent of Chemical Change (unit 6)

AQA GCSE Chemistry

- Unit 1 Chemistry - The periodic table, the atom, Group 1, 7 and 0 and Transition Metals
- Unit 2 Chemistry - Ionic, covalent, metallic bonding, compounds and properties, polymers, fullerenes and Nanoparticles

Future Learning (Topic) Bonding (Unit 2), Quantitative Chemistry (Unit 3)

What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)
Unit 1 Atomic Structure Recalling the periodic table, historical development of the periodic table. Recall the historic and current model of the atom. The arrangement of elements in the modern periodic table can be explained in terms of their electron arrangement and how that links to their chemical reactivity. Specific reference to the chemical reactivity of group 1, 7, 8 in the periodic table and the Transition metals.	**Key Piece of work (Homework)** Pupils given a percentage and formative feedback. **End of topic test** Pupils given a percentage and GCSE equivalent grade. Formative feedback provided. **Walking talking Mocks (WTM)** Formative feedback provided. **Yr 10 Mock Exams** Pupils given a percentage and GCSE equivalent grade.
Unit 2 Bonding Recall the structure and properties of Ionic, Covalent, and Metallic compounds. Explain the structure and properties of polymers. Identify the difference in properties of simple covalent and Giant Molecular structures. Recall the structure of various Fullerenes and their uses. Recall the definition, size and uses of Nanoparticles.	**Key Piece of work (Homework)** Pupils given a percentage and formative feedback. **End of topic test** Pupils given a percentage and GCSE equivalent grade. Formative feedback provided. **Walking talking Mocks (WTM)** Formative feedback provided. **Yr 10 Mock Exams** Pupils given a percentage and GCSE equivalent grade.

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

Atomic Number
Atomic Mass Number
Isotope
Alkali Metal
The Halogens
The Noble Gases
The Transition Metals
Nanoparticle
Plum Pudding Model
Nuclear Model
Ionic
Covalent
Fullerene
Empirical Formula
Giant Covalent
Simple Molecular
Lattice

Subject	Year	Term