

Key Stage 5 Curriculum Map 2021-22

Year 13 A level Chemistry

Term 2

| Subject: Chemistry | Year: 13 | | |
|--|---|---|-------------------------|
| Focus/Topic | UAE Links | HPL Links | Home Learning / Reading |
| <ul style="list-style-type: none">• Inorganic Chemistry<ul style="list-style-type: none">- Reactions of Period 3 elements• The Oxides of Elements in Period 3 | Summarise how knowledge of inorganic chemistry is beneficial to the UAE | VAA : Agile Creative and Enterprising: <i>The ability to be open-minded and flexible in your thought processes. Demonstrate a willingness to innovate and invent new and multiple solutions to a problem or situation.</i> <i>Be resourceful when presented with challenging tasks and problems, using your initiative to find solutions.</i> ACP: Linking Generalisation <i>The ability to see how what is happening in this instance could be extrapolated to other similar situations. Draw connections from prior learning to apply to new scenarios.</i> | Guided Reading |
| <ul style="list-style-type: none">• Inorganic Chemistry<ul style="list-style-type: none">- The Acidic/ Basic Nature of the Period 3 Oxides• The Chlorides of the Period 3 Elements | | | Guided Reading |
| <ul style="list-style-type: none">• Inorganic Chemistry<ul style="list-style-type: none">- The General Properties of Transition Metals• Complex Formation and the Shape of Complex Ions | | | Guided Reading |
| <ul style="list-style-type: none">• Inorganic review• Exam technique | | | Guided Reading |
| MOCKS | | | |
| MOCKS | | | |
| Mid Term Break | | | |

| Review of the mocks | | | Guided Reading |
|---|--|--|----------------|
| <ul style="list-style-type: none">Organic<ul style="list-style-type: none">NomenclatureOptical Isomers | Links to the pharmaceutical companies in Dubai (Norvartis, Glaxo, Biotech) and the importance of optical isomers | VAA: Empathetic Collaborative: <i>The ability to seek out opportunities to receive responses to your work; present your own views and ideas clearly and concisely; listen to the views of others; be willing and able to work in teams; take a variety of roles and be able to evaluate your own ideas and contributions.</i> ACP: Analysing Critical thinking: <i>The ability to deduct, hypothesise, reason, seek supporting evidence</i> | Guided Reading |
| <ul style="list-style-type: none">Organic<ul style="list-style-type: none">Synthesis of optically active compoundsIntroduction to aldehydes and ketonesReactions of the carbonyl group in aldehydes and ketones | | | Guided Reading |
| <ul style="list-style-type: none">Organic<ul style="list-style-type: none">-Carboxylic acids and ester- Reactions of carboxylic acids and esters- Acylation | Link to uses of esters in the UAE for fragrances in perfumes and food | | Guided Reading |
| <ul style="list-style-type: none">Organic<ul style="list-style-type: none">Introduction to arenesArenes – physical properties and reactivityReactions of arenes | Links to the source of benzene found in crude oil and this impact of the use of oil in the UAE | | Guided Reading |
| <ul style="list-style-type: none">Organic<ul style="list-style-type: none">Introduction to aminesThe properties of amines as basesAmines as nucleophiles and their synthesisCondensation polymers | Summarise how knowledge of organic chemistry is useful to the UAE | | Guided Reading |
| SPRING BREAK | | | |