

Year 10 Chemistry Curriculum Map 2020 - 2021

Term 1

| Subject: | Year: | |
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| Focus/Topic | UAE Links | Home Learning / Reading |
| <ul style="list-style-type: none"> Introduction and Expectations including key skills | | Year 9 summer work for Science |
| <ul style="list-style-type: none"> Atomic Structure <ul style="list-style-type: none"> States of Matter History of the Atom | Compare the states of matter of different materials they experience in the UAE | Guided Reading |
| <ul style="list-style-type: none"> Atomic Structure <ul style="list-style-type: none"> Atomic Structure Electron configuration | | Guided Reading |
| <ul style="list-style-type: none"> Atomic structure <ul style="list-style-type: none"> Atoms and Isotopes Revision and End of Topic Assessment | Evaluate the use of radioactive isotopes for Nuclear Energy in the UAE. Consider if this is a good alternative to using fossil fuels. | Guided Reading |
| <ul style="list-style-type: none"> Structure and Bonding <ul style="list-style-type: none"> Atoms into Ions Ionic Bonding | 1 | Guided Reading |
| <ul style="list-style-type: none"> Structure and Bonding <ul style="list-style-type: none"> Covalent Bonding Bonding in Metals | Research the use of metals in the UAE and relate their properties to their use | Guided Reading |
| <ul style="list-style-type: none"> Structure and Bonding <ul style="list-style-type: none"> Giant Ionic Structures Simple Molecules Giant Covalent Networks | Analyse the percentage of different gases found in the air within the UAE and determine their structure and bonding | Guided Reading |
| Half Term | | |
| <ul style="list-style-type: none"> Structure and Bonding <ul style="list-style-type: none"> Giant Metallic Structures Nanoscience | Research the use of nanoscience for advances in medicine and determine how this could impact society in the UAE | Guided Reading |

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| <ul style="list-style-type: none"> - Revision and End of Topic Assessment | | |
| <ul style="list-style-type: none"> • The Periodic Table <ul style="list-style-type: none"> - The Periodic Table - The Alkali Metals | Reflect on the use of common elements in the UAE and consider how their abundance could impact the UAE in the future | Guided Reading |
| <ul style="list-style-type: none"> • The Periodic Table <ul style="list-style-type: none"> - The Transition Metals - The Halogens (Group 7) | Compare and contrast the use of different metals in electrical cables for the UAE. Consider if copper is the best option. | Guided Reading |
| <ul style="list-style-type: none"> • The Periodic Table <ul style="list-style-type: none"> - Trends - Revision and End of Topic Assessment | | Guided Reading |
| <ul style="list-style-type: none"> • Practical Skills <ul style="list-style-type: none"> - Hypothesis - Variables - Methods and Safety | Planning an investigation and relating their conclusions to real life applications | Guided Reading |
| <ul style="list-style-type: none"> • Practical Skills <ul style="list-style-type: none"> - Recording data - Analysing data - Constructing conclusions - Evaluating an experiment | | Guided Reading |
| <ul style="list-style-type: none"> • Assessment Week | | Guided Reading |
| Winter Break | | |