

Year 10 Chemistry Curriculum Map 2021 - 2022

Term 1

Subject: Chemistry		Year: 10		
Focus/Topic	UAE Links	HPL LINKS	Home Learning / Reading	
<ul style="list-style-type: none"> Introduction and Expectations including key skills 		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>	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	VAA: Agile Open minded: <i>The ability to take an objective</i>	Guided Reading	

- Revision and End of Topic Assessment	determine how this could impact society in the UAE	<i>view of different ideas and beliefs; become more receptive to other ideas and beliefs based on the arguments of others; change ideas should there be compelling evidence to do so.</i> ACP: Linking Connection finding: <i>The ability to use connections from past experiences to seek possible generalisations</i>	
<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			