Subject/Year group/Unit Title	Big picture questions	Pupils will focus particularly on the following statements from the programme of study:
Chemistry Year 9C Metals Lesson 1: Properties of metals Lesson 2: Properties of non-metals Lesson 3: Reactions of metals with acids Lesson 4: Reactions of metals with water Lesson 5: Rusting Lesson 6: Metals and oxygen Lesson 7 + 8: Metal Oxides Lesson 9: The reactivity series and metal extraction Lesson 10: Displacement Reactions Lesson 11: EOU Assessment	 Use of the periodic table to identify metals and non-metals and to identify those with similar properties Reactions of metals and non-metals with oxygen to produce different types of oxides linked to pollution from acid gases Reactivity series of metals and the importance of the position of carbon linked with metal extraction Reactions of metals with acids 	CPe5: The properties of metals and non-metals CPe3: the Periodic Table: periods and groups; metals and non-metals* CPe6: the chemical properties of metal and non-metal oxides with respect to acidity. CCh6: reactions of acids with metals to produce a salt, plus hydrogen CMa1: the order of metals and carbon in the reactivity series CMa2: the use of carbon in obtaining metals from metal oxides CCh3: combustion, thermal decomposition, oxidation and displacement reactions
Assessment tasks	As FCJ educators, we will focus on the FCJ values by:	We will ensure students skills in reading, writing, communication and mathematics are enhanced by:
 Homework Formative Badger Assessment Summative end of unit test 	Excellence – set highest possible standards for all learners Companionship – teamwork when completing practical investigations, respect during class discussions Dignity – class discussions and Q&A, ensuring everyone is listened to and their views heard Justice - class discussions and Q&A, ensuring everyone is listened to and their views heard Hope – highlight progress in science and innovation to inspire learners	Mathematics – graph skills, time line, balancing equations, groups and periods Reading – within lessons themselves and literacy news reports Writing – extended Badger assessment Communication – discussions within lessons,

	Gentleness – classroom management in a firm but fair and gentle manner	
We are supporting progression from KS2 in this	We are supporting progression to KS4 in this	Misconceptions and how they will be addressed
unit by:	unit by:	
Learners have an understanding of acids and bases and neutralisation. They have been introduced to the idea of reactivity.	Reactivity series of metals and metal extraction. Acids and bases and neutralisation reactions. Representing substances using formulae. Representing chemical changes using equations.	Pupils do not understand that some elements can have properties associated with metals and non-metals Aluminium appears less reactive because it has an oxide layer