KS3 Unit Overview – Big Picture

Subject/Year group/Unit Title	Big picture questions	Pupils will focus particularly on the following statements from the programme of study:
Chemistry Year 8C Chemical Patterns Lesson 1: Discovering Elements Lesson 2: Elements and symbols Lesson 3: Development of the Periodic Table Lesson 4: Periodic Table Metals and non-metals Lesson 5: Periodic Table Group 1 Lesson 6: Periodic Table Group 7 and 0 Lesson 7: Compounds, Elements and Formulae Lesson 8: Compounds, Elements and Formulae (2) Lesson 9: Recognising Chemical Change Lesson 10: Types of Chemical Change Lesson 11: Heat in chemical reactions Lesson 12: Assessment Lesson Lesson 13: EOU Assessment	 Development of the periodic table Understanding the periodic table Periodic trends Chemical and physical changes Writing word and simple symbol equations 	CPe1: the varying physical and chemical properties of different elements CPe2: the principles underpinning the Mendeleev Periodic Table CPe3: the Periodic Table: periods and groups; metals and non-metals CPe4: how patterns in reactions can be predicted with reference to the Periodic Table PMPh5: the difference between chemical and physical changes* CCh1: chemical reactions as the rearrangement of atoms CCh2: representing chemical reactions using formulae and using equations
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	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,

We are supporting progression from KS2 in this	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 Gentleness – classroom management in a firm but fair and gentle manner We are supporting progression to KS4 in this	Misconceptions and how they will be addressed
unit by: Learners have an understanding of physical and chemical changes. They have been introduced to the particle theory.	unit by: Development of ideas for periodic table. The arrangement of atoms in the periodic table. Groups and periods. Properties of elements. Periodic trends. Representing substances using formulae. Representing chemical changes using equations.	Difference between chemical and physical changes. Atoms in formulae. Balancing equations.