HFS

Holy Family Catholic High School

Curriculum and Assessment Progression Map

Year 9

Subject Leader D Wilde

Key Learning Constructs to be developed	Scheme of Learning	Scheme of Learning	Scheme of Learning
over the academic year. – Core Knowledge	Autumn Term	Spring Term	Summer Term
*matter is composed of tiny particles called atoms and there are about 100 different naturally occurring types of atoms called elements *elements show periodic relationships in their chemical and physical properties * these periodic properties can be explained in terms of the atomic structure of the elements *atoms bond by either transferring electrons from one atom to another or by sharing electrons * the shapes of molecules (groups of atoms bonded together) and the way giant structures are arranged is of great importance in terms of the way they behave	Part 1 Atomic Structure Part 2 The Periodic Table	Part 3 Bonding and Structure – Ionic, Covalent Part 4 Bonding and Structure – Metallic Allotropes of Carbon, Nanoscience	Part 5 Quantitative Chemistry Part 6 Chemical Changes – Reactions of Metals and Acids
Hinterland Knowledge	Real examples of the APPLICATION of the content studied (eg, development of the Periodic Table etc)	Real examples of the APPLICATION of the content studied (eg uses of diamond, links with nanoscience)	Real examples of the APPLICATION of the content studied (eg the work of an Industrial Chemist)
Assessment: -Formative Techniques	Use of whiteboards, hinge questions, recall questions.		
-Summative Pieces	End of Topic Tests	End of Topic Tests	End of Topic Tests and End of Year Assessment
Key Vocabulary	Key scientific terminology appropriate to each topic studied	Key scientific terminology appropriate to each topic studied	Key scientific terminology appropriate to each topic studied
Key Skills	Working Scientifically, relevant mathematical techniques (percentages, mean, mode, median etc) Graph plotting skills. Understanding variables and anomalies and their causes and effects	Working Scientifically, relevant mathematical techniques (percentages, mean, mode, median etc) Graph plotting skills. Understanding variables and anomalies and their causes and effects	Working Scientifically, relevant mathematical techniques (percentages, mean, mode, median etc) Graph plotting skills. Understanding variables and anomalies and their causes and effects

Subject: Chemistry