

Subject:

Chemistry



HECKMONDWIKE
GRAMMAR SCHOOL

KS3 - Year 8 Curriculum Overview

	Topics being taught	What you will be assessed on	How you can support at home
Autumn Term	Term 1 Elements and the development of the periodic table Atoms, elements and compounds Chemical formulae and naming compounds. Writing and balancing chemical equations	Term 1 Organisation of the periodic table, groups, periods etc. The structure of the atom The scientists involved in developing the periodic table.	Overview of the periodic table and how it was developed
	Term 2 Groups of the periodic table – The alkali metals, halogens and noble gases	Term 2 Naming compounds and interpreting chemical formulae. Balancing chemical equations. The reactions of group 1 and group 7 elements	Help with elements and naming compounds Review reactions of group 1 , group 7 and the noble gases . Encourage use of educake to consolidate work.

CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS

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Spring Term	Term 3 Chemical and Physical changes Energy changes in chemical reactions and energy level diagrams. How catalysts work.	Term 3 The differences between chemical and physical changes. Drawing and interpreting energy level diagrams for endo and exothermic reactions	What are the different types of Chemical and physical change. Energy profiles for reactions
	Term 4 Different types of chemical reaction – oxidation, combustion, thermal decomposition and electrolysis.	Term 4 Recognising different types of reaction and how the mass changes in different types of chemical change	Review the different types of chemical change How catalysts work and why they are useful

EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS

	Topics being taught	What you will be assessed on	How you can support at home
Summer Term	Term 5 Structure of the Earth and Rock types The atmosphere The Earth's Resources	Term 5 The Earth's structure and how to recognise different types of rock. How igneous, sedimentary and metamorphic rocks are formed. The components of the atmosphere	Review the different layers that make up the Earth The different components of the atmosphere
	Term 6 Extraction of metals Properties of different types of materials	Term 6 How metals can be extracted from the ores by displacement reactions and electrolysis. Properties of ceramics, polymers and composites.	Extraction of metals and the different ways they can be extracted Review the properties of different materials