



The Science Faculty at Calder Learning Trust aims to provide students with a vertically integrated Science curriculum which builds on prior knowledge in a logical, progressive sequence throughout their school career. It provides an understanding of the natural phenomena that surrounds us whilst seeking to instil a curiosity in students to ask questions about the world around them. Students will develop an appreciation of the massive contribution Science has made to the world they know and an understanding of the relevance of Science to their lives. In providing a range of skills that can be applied to other curriculum areas, students will have an understanding of how the Science curriculum feeds into the wider school curriculum. This leads to a curriculum which nurtures an enjoyment of Science and a positive attitude to the subject.

Autumn Term - Year 7	Spring term - Year 7	Summer Term - Year 7
Chemistry Foundations – Atoms Physics Foundations – Energy	Biology Foundations – Cells Science Foundations – Matter and movement Biology 1 – Particle movement in organisms	Chemistry 1 – Elements and mixtures Physics 1 - Forces Biology 2 – Producers Chemistry 2 – Chemical Change
Autumn Term - Year 8	Spring term - Year 8	Summer Term - Year 8
Chemistry Foundations – Atoms Physics Foundations - Energy	Biology Foundations – Cells Physics 3 – Properties of waves Chemistry 3 – Earth structures and resources Biology 4 – Interdependence	Physics 4 – Behaviour of sound Chemistry 4 – Cycles and human impact Physics 5 – Behaviour of light Chemistry 5 – Reaction pathways
Autumn Term - Year 9	Spring term - Year 9	Summer Term - Year 9
Chemistry Foundations – Atoms Physics Foundations – Energy	Biology Foundations – Cells Physics 7 - Potential difference and electromagnets Chemistry 7 – Metals and non-metals Biology 8 – Inheritance Biology 9 – Effects of lifestyle	GCSE Biology Unit 1 – Cell structure GCSE Chemistry Unit 1 – Atomic structure and the periodic table GCSE Physics Unit 3 – Particle model of matter
Autumn Term - Year 10	Spring term - Year 10	Summer Term - Year 10
Biology - Infection and response Chemistry - Chemical changes Physics - Radiative: Waves Physics - Mechanical: Forces	Biology – Bioenergetics Chemistry - Quantitative Chemistry Physics - Electrical and Radiative Electricity/waves Biology - Ecology Chemistry - Energy changes Physics - Mechanical Forces	Biology - Homeostasis Chemistry - Chemistry of the Atmosphere Physics - Mechanical Forces Physics - Mechanical and Electrical
Autumn Term - Year 11	Spring term - Year 11	Summer Term - Year 11
Biology – Homeostasis Chemistry – Energy changes Chemistry - Rate and extent of chemical change Physics - Mechanical: Magnetism and electromagnetism	Biology – Inheritance, variation and evolution Chemistry – Organic Chemistry Chemistry - Chemical analysis Physics - Energy Physics - Radiative: Atomic structure and radioactivity	Revision and examinations