Science Curriculum Map Overview

Please note further information can be found in the KS3 Science curriculum sequencing document

DEYES HIGH SCHOOL
LYDIATE LEARNING TRUST

Key Stage 3

KS3 Year 7	Half term 1 Autumn 1	Half term 2 Autumn 2	Half term 3 Spring 1	Half term 4 Spring 2	Half term 5 Summer 1	Half term 6 Summer 2
Topic/content	**Energy 1: Energy Stores and Resources** **Atoms 1: The Particle Model**	**Cells 1: Cell structure** **Space 1: The Earth In The Universe**	**Atoms 2: Atoms Elements and Compounds** **Human Health 1: Health and Exercise**	**Electricity 1: Circuits** **Separation 1: Separating Mixtures**	**Inheritance 1: Reproduction**	**Forces 1: Forces and their effects**

KS3 Year 8	Half term 1 Autumn 1	Half term 2 Autumn 2	Half term 3 Spring 1	Half term 4 Spring 2	Half term 5 Summer 1	Half term 6 Summer 2
Topic/content	**Cells 2: Cell Transport** **Waves 1: Light & Sound Waves**	**Atoms 3: Periodic Table** **Human Health 2: Nutrition**	**Particles & Matter 1: The Particle Model** **Chemical Reactions 1: Chemical Reactions**	**Bioenergetics 1: Photosynthesis** **Magnetism 1: The effects of magnets**	**Chemical Changes 1: Endothermic and exothermic reactions** **Ecology 1: Interdependence**	**Motion 1: Moving Objects** **Earth Chemistry 1: Atmosphere & Rocks**

KS3 Year 9	Half term 1 Autumn 1	Half term 2 Autumn 2	Half term 3 Spring 1	Half term 4 Spring 2	Half term 5 Summer 1	Half term 6 Summer 2
Biology	**Bioenergetics 2: Respiration**		**Human Health 3: Digestion**		**Inheritance 2: Variation**	**Ecology 2: Ecosystems and Adaptation**
Chemistry	**Rates of reaction 1: Developing practical fluency**	**Atoms 3: Atomic structure and the periodic table**	**Matter 2: Properties of everyday materials** **Energy changes 1: Making and breaking bonds**	**Separating substances 2: Mixtures and immiscibility**	**Chemical analysis 1: Testing for gases**	**Earth chemistry 2: Carbon**
Physics	**Energy 2: Changing energy stores**	**Particles and matter 2: Heating and cooling**	**Electricity and Magnetism 2: Using electrical current**		**Forces and Motion 2: Newton's laws of motion**	**Waves and Space 2: Applications of Light**

Science Curriculum Map Overview

Please note further information can be found in the Biology, Chemistry and Physics curriculum sequencing documents

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Key Stage 4

KS4 Year 10	Half term 1 Autumn 1	Half term 2 Autumn 2	Half term 3 Spring 1	Half term 4 Spring 2	Half term 5 Summer 1	Half term 6 Summer 2
Biology	**Cells 3 Cell division**	**Human Health 4: Circulatory and disease**	**Human Health 5: Infectious disease**	**Bioenergetics 3: Photosynthesis and respiration**	**Homeostasis 1: Nervous system**	**Ecology 3: Human interaction on ecosystems**
Chemistry	**Atoms 4: Atomic structure** **Separating substances 3: Purity and solubility**	**Bonding 1: Bonding and the properties of materials**	**Quantitative Chemistry 1: Calculations used in chemistry**	**Chemical changes 2: Reactions of acids, metals and electrolysis**	**Energy changes 2: Energy changes and measurements in reactions**	**Rate of reaction 2: Measuring and changing rates in reactions.**
Physics	**Energy 3: Energy applications**	**Electricity 3: PD, current and resistance**	**Waves 3: Properties and uses of waves** **Waves 3: Applications of waves (separates only)**	**Particles 3: Particle model of matter**	**Forces 4: Newton's laws**	**Atoms 3: Atomic Structure** **Atoms 3: Fission and Fusion (separates only)**

KS4 Year 11	Half term 1 Autumn 1	Half term 2 Autumn 2	Half term 3 Spring 1	Half term 4 Spring 2	Half term 5 Summer 1	Half term 6 Summer 2
Biology	**Homeostasis 2 Endocrine system**	**Inheritance 3: Reproduction**	**Inheritance 4: Variation and Evolution**	**Revisit Curriculum**	**Revisit Curriculum**	
Chemistry	**Organic Chemistry 1: Derivatives of crude oil**	**Chemical analysis 2: Identifying unknown substances**	**Earth Chemistry 2: Evolution of the atmosphere**	**Using resources 1: Water resources and chemistry applications**	**Revisit Curriculum**	
Physics	**Electricity 4: Domestic electricity**	**Forces 5: Mechanics** **Forces 5: Further mechanics (separates only)**	**Magnetism 3: Magnetism and electromagnetism**	**Space 3: Space physics (separates only)** **Revisit Curriculum**	**Revisit Curriculum**	

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Science Curriculum Map Overview

Please note further information can be found in the Biology, Chemistry and Physics curriculum sequencing documents

Key Stage 5

KS5 Year 12	Half term 1 Autumn 1	Half term 2 Autumn 2	Half term 3 Spring 1	Half term 4 Spring 2	Half term 5 Summer 1	Half term 6 Summer 2
Biology	**Biological Molecules** **Cells**	**Biological Molecules** **Cells**	**Genetic information, variation and relationships between organisms.** **Organisms exchange substances with their environment**	**Genetic information, variation and relationships between organisms.** **Organisms exchange substances with their environment**	**Genetic information, variation and relationships between organisms.** **Organisms exchange substances with their environment**	
Chemistry	**Atomic structure** **Amount of Substance** **Introduction to Organic Chemistry** **Alkanes**	**Amount of substance** **Bonding** **Alkanes** **Haloalkanes**	**Bonding** **Energetics** **Haloalkanes** **Alkenes**	**Kinetics** **Equilibria** **Redox**	**Periodicity** **Group 2** **Alcohols** **Organic analysis**	**Halogens** **Organic analysis**

Physics	**Measurements and errors** **Particles** **Forces (mechanics)**	**Electromagnetic radiation and quantum phenomena** **Motion (mechanics)** **Energy and momentum (mechanics)**	**Materials** **Progressive and stationary waves**	**Progressive and stationary waves** **Current electricity**	**Refraction, diffraction and interference** **Electric circuits**	**Periodic motion**

KS5 **Year 13**	**Half term 1** **Autumn 1**	**Half term 2** **Autumn 2**	**Half term 3** **Spring 1**	**Half term 4** **Spring 2**	**Half term 5** **Summer 1**	**Half term 6** **Summer 2**
Biology	**Energy transfers in and between organisms** **Organisms respond to changes in their external and internal environments**	**Energy transfers in and between organisms** **Organisms respond to changes in their external and internal environments**	**Genetics, populations, evolution and ecosystems** **The control of gene expression**	**Genetics, populations, evolution and ecosystems** **The control of gene expression**	**Exam preparation and revision**	
Chemistry	**Thermodynamics** **Optical isomerism** **Carbonyls** **Derivatives of carboxylic acids**	**Electrochemical cells** **Acids and bases** **Biochemistry** **Synthetic Pathways** **NMR**	**Acids and bases** **Chromatography** **Period 3** **Transition metals**	**Acids and bases** **Transition Metals** **Aqueous solutions**	**Exam preparation and revision**	

Physics	**Thermal physics** **Gravitational fields**	**Electric fields** **Capacitance** **Magnetic fields**	**Radioactivity** **Telescopes** **Classification of stars**	**Nuclear physics** **Cosmology**	**Measurements and errors (revisit)** **Exam preparation and revision**	