HILLSIDE HIGH SCHOOL

Curriculum Pathway

Science

Year 7

Autumn Term	Spring Term	Summer Term
Half Term 1 • Atoms, Elements, Compounds and mixtures. • Forces.	**Half Term 1** • Particle model. • Cells.	**Half Term 1** • Human reproduction.
Half Term 2 • Energy stores.	**Half Term 2** • Movement. • Separating Mixtures.	**Half Term 2** • Plant reproduction

Year 8

Autumn Term	Spring Term	Summer Term
Half Term 1 • Interdependence.	**Half Term 1** • Periodic table.	**Half Term 1** • Heating and Cooling.
Half Term 2 • Electricity. • Magnets and electromagnets.	**Half Term 2** • Chemical reactions. • Acids and alkalis.	**Half Term 2** • Electricity, energy costs and transfer. • Health & Nutrition

Year 9

Autumn Term	Spring Term	Summer Term
Half Term 1 • Breathing & respiration • Photosynthesis.	**Half Term 1** • Speed. • Work done and moments.	**Half Term 1** • Evolution and extinction. • Pressure.
Half Term 2 • Earths structure. • Climate and Earths resources.	**Half Term 2** • Waves – Light and Sound • Variation and Inheritance.	**Half Term 2** • Space. • SRE additional content

Year 10 – Trilogy

Autumn Term	Spring Term	Summer Term
Half Term 1 • Cell biology. • Atomic structure and the Periodic table. • Energy.	**Half Term 1** • Organisation. • Structure and bonding/Chemical changes and Quantitative chemistry. • The Particle model of matter.	**Half Term 1** • Infection and response/Bioenergetics. • Energy changes. • Electricity.
Half Term 2 • Cell biology/Organisation. • Atomic structure and the Periodic table/Structure and bonding. • Energy.	**Half Term 2** • Infection and response. • Chemical changes and Quantitative chemistry • The Particle model of matter/Electricity.	**Half Term 2** • Bioenergetics. • Energy changes. • Atomic structure.

Year 10 – Separate Science

Autumn Term	Spring Term	Summer Term
Half Term 1 • Cell biology. • Atomic structure and the Periodic table. • Energy.	**Half Term 1** • Organisation. • Structure and bonding/Chemical changes and Quantitative chemistry. • The Particle model of matter.	**Half Term 1** • Infection and response/Bioenergetics. • Energy changes. • Electricity.
Half Term 2 • Cell biology/Organisation. • Atomic structure and the Periodic table/Structure and bonding. • Energy.	**Half Term 2** • Infection and response. • Chemical changes and Quantitative chemistry • The Particle model of matter/Electricity.	**Half Term 2** • Bioenergetics. • Energy changes. • Atomic structure.

Year 11 – Trilogy

Autumn Term	Spring Term	Summer Term
Half Term 1 • Bioenergetics/Homeostasis and response • Energy changes/Rates and equilibrium. • Atomic structure/Forces in action (A). • 11W4 – Homeostasis and response, Rates of reaction, Forces (A)	**Half Term 1** • Homeostasis and response/Inheritance, variation and evolution. • Chemical analysis/The Earth's atmosphere. • Forces in motion (B)/Waves. • 11W4 – Chemical analysis, Earth's atmosphere, Forces B.	**Half Term 1** • Ecology. • Using the Earth's resources. • Forces in motion (B)/Magnetism and electromagnetism. • 11W4 – Electromagnetism and revision.
Half Term 2 • Homeostasis and response. • Crude oil, fuels and Organic chemistry. • Forces in action (A)/Waves. • 11W4 –Forces (A), Variation and Inheritance. Hydrocarbons and organic, Waves, Chemical Analysis/	**Half Term 2** • Inheritance, variation and evolution. • The Earth's atmosphere. • Forces in motion (B). • 11W4 – Forces in motion. Ecology, Using Resources.	**Half Term 2** • Ecology. • Magnetism and electromagnetism. • Revision and examinations. • 11W4 –Revision.

Year 11 – Separate Science

Autumn Term	Spring Term	Summer Term
Half Term 1 • Bioenergetics/Homeostasis and response. • Energy changes and Rates of reaction. • Space.	**Half Term 1** • Inheritance, variation and evolution. • Organic chemistry/Chemical analysis. • Waves.	**Half Term 1** • Ecology. • The Earth's atmosphere/Using the Earth's resources. • Forces in motion (B).
Half Term 2 • Homeostasis and response. • The rate and extent of chemical change/Organic chemistry. • Forces in action (A)	**Half Term 2** • Inheritance, variation and evolution. • Chemical analysis/The Earth's atmosphere. • Waves/Forces in motion (B)	**Half Term 2** • Ecology • Magnetism and electromagnetism. • Revision and examinations.