Ellesmere Park High School

EPHS Y7-11 Science Curriculum Overview 2025-26

Year group	Curricular content covered
7	<u>Block 1</u> Cells; Materials Science; Forces. <u>Block 2</u> Organisation; Substances and Mixtures; Sound and Light; Inheritance; Solar System. <u>Block 3</u> Variation; Atoms, Elements and Compounds; Heating and Cooling; Health and Disease; Designing Materials; Earth's Resources.
8	<u>Block 4</u> Diet and Exercise; Solubility and Chemical Change; Motion. <u>Block 5</u> Biochemistry; Periodic Table; How We See and Making Images; Air Pollution; Space and Beyond. <u>Block 6</u> Reproduction; Evaporation and Water Cycle; Energy and Reactions; More About Forces; Interdependence of Organisms; Simple Circuits; Acids and Alkalis; Weathering and Erosion.
9	<u>Block 7</u> Infectious Disease; More Electrical Circuits; Understanding Chemical Reactions; Waves; Fuel Uses and Costs. <u>Block 8</u> Biodiversity and Human Impact; Floating and Sinking; Adaptation and Evolution; Rock Changes; Magnets and Electromagnets. <u>Block 9</u> Cell Biology; Inheritance and the Genome; Interdependence and Classification; Atomic Structure and the Periodic Table; Bonding; Energy of Moving Particles; Measuring and Calculating Motion.
10	<u>Block 10</u> Cell Transport; Human Systems; Coordination and Control; Quantitative Chemistry; Crude Oil; Material Properties; Energy of Moving Objects; Circuit Calculations. <u>Block 11</u> Human Lifestyles and Health; Growth and Development; More Infectious Disease; Rates of Reaction and Catalysts; Measuring Waves; Particle Explanations. <u>Block 12</u> Bioenergetics; Sexual and Asexual Reproduction; Acids, Bases and Ions; Electrolysis; Energy Changes; Forces Make Things Change; Circuit Components.

11	<u>Block 13</u> Human Activity and Impact; Maintaining Health; Chemical Analysis; Earth and Atmosphere; Nuclear Physics; Electromagnetism. <u>Block 14</u> Explaining Evolution and Speciation; Chemical Equilibrium; Sustainability; Electromagnetic Waves; Mains Electricity; Space Physics (Separate Sciences only).

Our curriculum is underpinned by the STEM Learning BEST (Best Evidence Science Teaching) model, which draws on research-informed approaches to support the development of secure scientific knowledge, conceptual understanding and disciplinary thinking. We have chosen this model because it helps us carefully sequence learning, identify and address common misconceptions, and provide meaningful opportunities for students to apply their understanding through scientific enquiry. The model supports our commitment to an ambitious, coherent science curriculum that enables all students to build knowledge progressively and make connections across the discipline.

Most GCSE students follow the AQA GCSE Combined Science: Trilogy specification. Those that have opted to study the Separate Science pathway follow the AQA GCSE Biology, Chemistry and Physics specifications.