



# Willow Park School – Long Term Plan – Science - Loxley (KS3)

Cycle	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>1</b> 2023 - 2024	<u><b>Biology</b></u> Structure and function of living organism Cells and organisation The skeletal and muscular systems	<u><b>Chemistry</b></u> The particulate nature of matter Materials Atoms, elements and compounds	<u><b>Physics</b></u> Motion and forces Describing motion Forces Balanced forces Forces and motion	<u><b>Biology:</b></u> Structure and function of living organisms Reproduction	<u><b>Chemistry</b></u> The periodic table Chemical and physical properties Principles of the Mendeleev PT alkalis and acids	<u><b>Physics</b></u> Energy Calculation of fuel uses and costs in the domestic context Energy changes and transfers Changes in systems
	<u><b>Biology</b></u> Structure and function of living organisms Nutrition and digestion Gas exchange systems	<u><b>Chemistry</b></u> Pure and impure substances filtration diffusion chromatography and distillation	<u><b>Physics</b></u> Waves Observed waves Sound waves Energy and waves Light waves	<u><b>Biology:</b></u> Material cycles and energy Photosynthesis Cellular respiration	<u><b>Chemistry</b></u> Rocks – Structure of the earth Composition of the atmosphere Carbon emissions	<u><b>Physics</b></u> Matter Physical changes Particle model Energy in matter Brownian motion of gases
	<u><b>Biology</b></u> Interactions and interdependencies Relationships in an ecosystem	<u><b>Physics</b></u> Electricity and electromagnetism Current electricity Static electricity Magnetism	<u><b>Chemistry</b></u> Chemical reactions metal and non-metal oxides and reactions Link to periodic table carbon and metal reactivity	<u><b>Biology</b></u> Genetics and evolution Inheritance, chromosomes, DNA and genes	<u><b>Chemistry</b></u> Energetics in changes of state a chemical reactions endothermic and exothermic chemical reactions	<u><b>Physics</b></u> SPACE gravitational force on planets Our sun as a star, our galaxy and other galaxies Light years earths seasons