CHISONA ACADEMY

Science Curriculum

	Term 1		Term 2		Term 3	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
YEAR 7	➢ Enquiry processes ➢ Organisms ➢ Genes ➢ Ecosystems		➢ Matter ➢ Reactions ➢ Energy ➢ Forces		➢ Waves ➢ Earth	
YEAR 8	➢ Enquiry processes ➢ The periodic table ➢ Health and lifestyle ➢ Electricity and magnetism ➢ Adaptation and inheritance		➢ Separation techniques ➢ Energy ➢ Ecosystem processes ➢ Metals and acids		➢ Motion and pressure ➢ The Earth	
YEAR 9	➢ Key concepts in Biology ➢ Key concepts in Chemistry ➢ Key concepts in Physics ➢ Maths for science ➢ Practical skills		➢ Key concepts in Biology ➢ Waves, light, and the EM spectrum		➢ States of matter ➢ Separating substances ➢ Atomic structure ➢ Periodic table ➢ Genetics	
YEAR 10 Combined Science	➢ Cells and control ➢ Ionic/covalent bonding and types of substances ➢ Conservation of energy ➢ Genetics ➢ Acids and alkalis		➢ Acids and alkalis continued ➢ Natural Selection ➢ Calculations ➢ Motion ➢ Forces and motion ➢ Health and disease		➢ Electrolytic processes ➢ Obtaining and using metals ➢ Radioactivity ➢ Ecosystems	
YEAR 11 Combined Science	➢ Groups in the periodic table ➢ Rates of reaction ➢ Heat energy changes. ➢ Energy, forces, and their effects ➢ Electricity and circuits ➢ Magnetism and the motor effect and electromagnetic induction		➢ Animal coordination, control, and homeostasis ➢ Particle model ➢ Forces and matter ➢ Fuels ➢ Earth and atmosphere science ➢ Ecosystems and material cycles		➢ Revision	
YEAR 10 Triple Biology	➢ Key Concepts ➢ Cells and control ➢ Genetics		➢ Genetics continued ➢ Natural Selection		➢ Health and disease ➢ Plant structures and their functions	
YEAR 11 Triple Biology	➢ Plant structures and their functions. ➢ Animal coordination, control and homeostasis		➢ Exchange and transport in animals ➢ Ecosystems		➢ Ecosystems continued	
YEAR 10 Triple Chemistry	➢ Ionic bonding ➢ Covalent bonding ➢ Types of substance ➢ Acids and alkalis		➢ Acids and alkalis continued ➢ Calculations ➢ Electrolytic processes ➢ Extracting metals ➢ Equilibria		➢ Transition metals. ➢ Quantitative analysis ➢ Dynamic equilibria ➢ Organic Chemistry	
YEAR 11 Triple Chemistry	➢ Quantitative analysis ➢ Groups, rates, and energy		➢ Fuels ➢ Earth and atmosphere science ➢ Hydrocarbons ➢ Alcohols and acids ➢ Polymers ➢ Qualitative analysis		➢ Bulk and surface properties of matter including nanoparticles. ➢ Revision	
YEAR 10 Triple Physics	➢ Waves, light, and the EM Spectrum ➢ Conservation of energy ➢ Motion		➢ Motion continued ➢ Forces and motion		➢ Radioactivity ➢ Astronomy	
YEAR 11 Triple Physics	➢ Astronomy ➢ Energy ➢ Electricity and circuits ➢ Static electricity		➢ Magnetism and the motor effect ➢ Electromagnetic induction ➢ Particle model ➢ Forces and matter		➢ Revision	