SCIENCE | CURRICULUM SUMMARY | YEAR 7

CHEMISTRY

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
TOPICS	**Matter- Particle modelling**	**Matter - Separating mixtures**	**Reactions – metals and non-metals**	**Reactions – acids and alkalis**	**Earth - Earth structure**	**Earth - Universe**
HOME LEARNING	**Weekly subject consolidation**					
ASSESSMENT	**Teacher formative** **End of topic summative**					

PHYSICS

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
TOPICS	**Forces – Speed and gravity**	**Voltage and current**	**Resistance and static electricity**	**Energy - Transfer**	**Energy – Costs**	**Waves – Sound and light**
HOME LEARNING	**Weekly subject consolidation**					
ASSESSMENT	**Teacher formative** **End of topic summative**					

BIOLOGY

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
TOPICS	**Organisms - Cells**	**Organisms - Movement**	**Genes - Human reproduction**	**Genes - Variation**	**Ecosystems - Plant reproduction**	**Ecosystems - Interdependence**
HOME LEARNING	**Weekly subject consolidation**					
ASSESSMENT	**Teacher formative** **End of topic summative**					

SCIENCE | CURRICULUM SUMMARY | YEAR 8

CHEMISTRY	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
TOPICS	**Matter - Periodic table**	**Matter - Elements**	**Reactions - Chemical energy**	**Reactions – Rates of reaction**	**Reactions – Types of reaction**	**Earth – Climate and Earths resources**
HOME LEARNING	**Weekly subject consolidation**					
ASSESSMENT	**Teacher formative** **End of topic summative**					

PHYSICS	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
TOPICS	**Forces – contact forces**	**Forces - pressure**	**Magnetism**	**Electromagnets**	**Energy – work, heating and cooling**	**Waves – wave effects and wave properties**
HOME LEARNING	**Weekly subject consolidation**					
ASSESSMENT	**Teacher formative** **End of topic summative**					

BIOLOGY	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
TOPICS	**Organisms - breathing**	**Organisms - digestion**	**Ecosystems - respiration**	**Ecosystems - photosynthesis**	**Genes - inheritance**	**Genes - evolution**
HOME LEARNING	**Weekly subject consolidation**					
ASSESSMENT	**Teacher formative** **End of topic summative**					

SCIENCE | CURRICULUM SUMMARY | YEAR 9

BIOLOGY

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
TOPICS	**Cells**	**Cell cycle and transport**	**Organisation - animals**	**Non-communicable disease**	**Organisation - plants**	**Infection and response – communicable diseases**
HOME LEARNING	**Weekly subject consolidation**					
ASSESSMENT	**Teacher formative** **End of topic summative**					

CHEMISTRY

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
TOPICS	**Atomic Structure**	**Periodic table**	**Quantitative chemistry (part 1)**	**Energy changes**	**Bonding structure and properties (not large molecules)**	**Organic chemistry**
HOME LEARNING	**Weekly subject consolidation**					
ASSESSMENT	**Teacher formative** **End of topic summative**					

PHYSICS

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
TOPICS	**Energy Stores and Transfers**	**Reducing wasted energy and the national grid**	**Particle model of matter**	**Particle model of matter**	**Atomic structure – models of the atom**	**Atomic structure – radioactive decay and half life**
HOME LEARNING	**Weekly subject consolidation via Educake and Seneca**					
ASSESSMENT	**Teacher formative** **End of topic summative**					

SCIENCE TRILOGY | CURRICULUM SUMMARY | YEAR 10

BIOLOGY

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
TOPICS	**Infection and response – human defences, drugs and vaccinations**	**Homeostasis – the nervous system and endocrine system**	**Homeostasis – Controlling blood glucose and reproduction**	**Ecology – adaptations, interdependence and ecosystems**	**Ecology – organisation and material cycling**	**Ecology – biodiversity and the impact of human interactions on ecosystems**
HOME LEARNING	**Weekly subject consolidation**					
ASSESSMENT	**Teacher formative** **End of topic summative**					

CHEMISTRY

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
TOPICS	**Chemical analysis**	**Chemical change (part 1)**	**Rates and extent of reaction (part 1)**	**Chemistry of the atmosphere**	**Bonding structure and properties of matter (part 2)**	**Using resources**
HOME LEARNING	**Weekly subject consolidation**					
ASSESSMENT	**Teacher formative** **End of topic summative**					

PHYSICS

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
TOPICS	**Electricity – current, potential difference and resistance**	**Electricity – Domestic uses and safety**	**Forces – interactions of forces**	**Forces – Motion**	**Forces – Newton's laws of motion**	**Waves – types and calculations**
HOME LEARNING	**Weekly subject consolidation via Educake and Seneca**					
ASSESSMENT	**Teacher formative** **End of topic summative**					

ivSCIENCE TRILOGY | CURRICULUM SUMMARY | YEAR 11

BIOLOGY

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
TOPICS	**Inheritance – reproduction and genetic inheritance**	**Variation and Evolution – what is evolution, selective breeding and genetic engineering**	**Evolution – the evidence for evolution and antibiotic resistant bacteria**			
HOME LEARNING	**Weekly subject consolidation**					
ASSESSMENT	**Teacher formative** **End of topic summative**					

CHEMISTRY

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
TOPICS	**Quantitative chemistry (part 2)**	**The rate and extent of chemical change (part 2)**	**Chemical changes - electrolysis**			
HOME LEARNING	**Weekly subject consolidation**					
ASSESSMENT	**Teacher formative** **End of topic summative**					

PHYSICS

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
TOPICS	**Magnetism and electromagnetism – Magnetic fields**	**Magnetism and electromagnetism – Motor effect and induced potential difference**	**Space – Structure of the solar system and origins of the universe**			
HOME LEARNING	**Weekly subject consolidation via Educake and Seneca**					
ASSESSMENT	**Teacher formative** **End of topic summative**					