



LTP 3 Year Rolling Programme- Science-Kestrels

Year 1		Term 1:	Term 2:	Term 3:
FOCUS		Physics	Biology	Biology
Skills and Knowledge	1	Forces - Friction - Air Resistance - Water Resistance - Gravity	Animals including humans - The Human Life Cycle - Stages of the Human Life Cycle - Gestation periods and lifespan of mammals.	Reproduction - Sexual reproduction in mammals. - Reproductive parts in plants - Pollination - Asexual reproduction
	2	Space - The planets and the solar system. - Motion of the planets. - Planet Earth - The Moon	Life Cycles - Life cycles of mammals. - Life cycles of amphibians. - Life cycles of insects. - Life cycles of birds.	
Year 2		Term 1:	Term 2:	Term 3:
FOCUS		Biology	Chemistry	Physics/ Sustainability
Skills and Knowledge	1	Biology The circulatory system - Blood and blood cells. - The Heart. - The Circulatory System. - Oxygenated and Deoxygenated blood.	Properties of Materials - Properties of materials- magnetic, transparency, hardness. - Electrical conductors/insulators. - Thermal conductors/insulators. - Uses of everyday materials.	Physics: Light - Light- How we see. - Light travelling in straight lines. - Shadow formation - Refraction
	2	Biology Diet, Drugs and Lifestyle - Effects of diet, drugs and smoking on the human body. - Effects of exercise on heart rate.	Reversible and Irreversible changes - Dissolving, filtering and sieving. - Solutions and evaporation - Irreversible changes- burning and acid.	Sustainability: Light Pollution - What is light pollution? - Reducing light pollution.
Year 3		Term 1:	Term 2:	Term 3:
FOCUS		Biology	Biology/ Sustainability	Physics/ Sustainability
Skills and Knowledge	1	Fossils - Fossil formation - Discovery of fossils. - Mary Anning	Living Things and their Habitats - Condition for life. - Classify animals and plants. - Classify microorganisms. - Carl Linnaeus	Electricity - Construct and draw series circuits. - Complete and incomplete circuits. - Varying components in a circuit. - Voltage
	2	Variation - What is variation. - Inheritance and characteristics	Global Warming - What is global warming? - Impact of global warming on living things.	Renewable Energy - What is renewable energy? - Using renewable energy.
	3	Adaptations - Animal adaptations - Plant adaptations - Evolution - Charles Darwin and Natural Selection	Sustainability: Plastic Pollution - What is plastic pollution? - Impact of plastic pollution on the planet.	