





Barndale House School - Class 4

KS4 Science—Topic Overview

YEAR 1	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 1	SUMMER 1	SUMMER 2
Component	Biology The Human Body	Chemistry Elements , Mixtures and Compounds	Physics Energy , Forces and the Structure of Matter	Biology Environment , Evolution and Inheritance	Chemistry Chemistry In Our World	Physics Electricity , Magnetism and Waves
Topic 	WHAT AM I MADE OF? <i>Cells /Tissues/ Organs Circulatory /Digestive / Respiratory systems</i>	SORT IT OUT <i>Separating mixtures filtration, distillation, crystallisation and chromatography.</i>	WHAT'S THE ALTERNATIVE? <i>Renewable and non-renewable energy sources and how they are used.</i>	THE CIRCLE OF LIFE <i>Photosynthesis / Ecosystems –relationship between living organisms Decay /Food Waste/ Compost</i>	PLASTIC FANTASTIC?? <i>Structure and properties Advantages / Disadvantages Biodegradable materials</i>	ALL THINGS ELECTRIC <i>Circuits , current , insulators + conductors Domestic Use</i>
YEAR 2	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 1	SUMMER 1	SUMMER 2
Component	Biology The Human Body	Chemistry Elements , Mixtures and Compounds	Physics Energy , Forces and the Structure of Matter	Biology Environment , Evolution and Inheritance	Chemistry Chemistry In Our World	Physics Electricity , Magnetism and Waves
Topic 	HOW DOES MY BODY WORK? <i>Lifestyle , Health and fighting disease</i>	HEAVY METAL <i>Structure and properties / alloys /non-metals Mining and recycling</i>	READY ,STEADY ,GO <i>Forces , speed and stopping distances.</i>	SURVIVAL OF THE FITTEST <i>Evolution and Genetics/ adaptation and extinction</i>	CLEAN IT UP <i>Air and Water pollution / Human impact the Earth and atmosphere.</i>	MAKING WAVES <i>Sound , light , radio and micro-waves</i>

Working Scientifically : Develop scientific enquiry skills with set tasks in each topic.