

Plan Of Learning For The Year (Unit/Topic/Project Context)

Half Term 1 - 2- 3 Rota basis

Organisms – Breathing and digestion
 Matter - Periodic table and elements
 Energy – Work and heating and cooling
 Genes - Evolution and inheritance
 Forces- Contact forces and pressure

Half Term 4 -5- 6 Rota basis

Waves – Wave effects and wave properties
 Reactions – Chemical energy and types of reaction
 Electromagnets – Electromagnets and magnets
 Ecosystem – Respiration and photosynthesis
 Earth – Climate and Earth resources

Feedback, Retrieval & Assessment	Super curriculum opportunities / extra-curricular activities	Cultural Capital, SMSC, Careers and Futures
<ul style="list-style-type: none"> • Self and peer assessment <ul style="list-style-type: none"> • On-going formative assessment during lessons by teacher • Student/teacher one-to-one discussions • Termly teacher assessed tasks • Formal assessments 	<ul style="list-style-type: none"> • Year homework projects based on the topic covered and test yourselves with feedback set on SENECA Learning. • Literacy tasks throughout SOW 	<ul style="list-style-type: none"> • Each topic has a link to a career link to be presented in class when covering a suitable topic • Sensitive topics (Biology) covered with sensitivity and awareness of how correct terminology is used by all in the classroom. • Climate and Earth resources relate to community efforts to reduce energy use.

Common misconceptions	Connecting New Knowledge	Challenge for all
<ul style="list-style-type: none"> • Air doesn't weigh anything. • Sugar disappears when dissolved. • The space between particles is full of air. • Electricity is used up when it goes around a circuit. • To keep an object moving a force must be kept on it. • Booklet on science misconceptions available as they are plentiful and part of everyday science teaching. 	<ul style="list-style-type: none"> • Regular revisiting of core keywords. • Links between topics identified by teachers <ul style="list-style-type: none"> • Use of Knowledge Organisers to see where new learning fits with bigger picture • Use of numeracy sheet • Use of curriculum map 	<ul style="list-style-type: none"> • Knowledge Organisers to support with vocabulary and key grammar points in each unit. • Regular use of scaffolds and structured practice • Clearly defined success criteria and use of skills matrix to show next steps to improve • Stretch activities built into each lesson