

Plan Of Learning for the Year (Unit/Topic/Project Context)

Half Term 1 - 2- 3 Rota basis

Starting science – Safety, basic scientific equipment, and methods
 Organisms – Cells and movement
 Matter - Particle model and separating substances
 Energy – Energy costs and energy transfer
 Genes - Variation and human reproduction
 Forces- Speed and gravity

Half Term 4 -5- 6 Rota basis

Waves – Sound and light
 Reactions – Metals and non- metals, acids, and alkalis
 Electromagnets - Voltage, resistance and current
 Ecosystem – Interdependence and plant reproduction
 Earth – Earther structure and the universe

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"> • Making a model cell • 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 doing a suitable topic • Sensitive topics (Biology) covered with sensitivity and awareness of how correct terminology is used by all in the classroom.

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 misconception available as they are plentiful. 	<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 	<ul style="list-style-type: none"> • Knowledge Organisers to support with vocabulary and key grammar points in each unit. <ul style="list-style-type: none"> • 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