









## Curriculum Overview for Science

### Year 8

<p><b><u>Half Term 5 : Future Olympian</u></b></p> <p><b>Substantive Knowledge:</b>            Identification of main food groups            How to control body temperature            The effects of energy drinks            Explain heart rate            Describe how heart rate is affected by exercise            Explain breathing rate and how it changes during exercise            Compare anaerobic and aerobic respiration            How respiration is affected by altitude</p> <p><b>Disciplinary Knowledge:</b>            How to calculate speed</p>		Article homework – reading for meaning, Model reading and highlighting to pick out key details, reading of data, Skim reading
		Healthy, Balanced, Ratios, Energy, Diet, Temperature, Homeostasis, Vasodilation, Vasoconstriction, Electrolytes, Adrenaline, Caffeine, Glucose, Lungs, Reactants, Products, Respiration, Haemoglobin, Saturation,
		Recall test x 2 Written assessment End of unit assessment
		Article Homework to promote reading like a scientist Revise for recall test Optional revision for written assessment and wish tasks when complete.
<p><b><u>Half Term 6: Investigations in a New Context</u></b></p> <p>The effects of performance enhancing drugs in sport            How athletes alter their body to gain an advantage            Describe what makes the perfect athlete            Describe the 3 types of neurone            How drugs affect the nervous system            Explain reaction time            How MND and MS affect normal life            How we respond to sound and light</p> <p><b>Disciplinary Knowledge:</b>            How to calculate speed            How to interpret distance-time graphs            How to interpret velocity-time graphs</p>		Article homework – reading for meaning, Model reading and highlighting to pick out key details, reading of data, Skim reading
		Drug testing, Athletes, Performance enhancement, Steroids, Marginal gains, Synapse, Neurone, Stimulant, Reaction time, Acceleration, Deceleration, Velocity, Antidoping
		Recall test Written Assessment
		Article Homework to promote reading like a scientist Revise for recall test Optional revision for written assessment and wish tasks when complete.