Programme of Study/Scheme of Work 2023-2024

Subject – Science

Year group: 8N

Unit Outline. (Overview of what is being delivered in each half-term)	Key Skills to be developed	Methods used to develop skills. What tasks/activities will you use to maximise outcomes? (Based on deconstructing the tasks proven to be effective at KS 3/4)	Success criteria. (How will you know and record if pupils have learnt what is required?)	Cross curricular links. (What are the key skills which could be used in other subjects?)	Assessment /Criteria / Methods
Autumn 1	The content of a healthy		Completion of mini tasks		- Individual feedback
	human diet:	Generic:	in lessons and formative		(WWW-EBI)
Nutrition and	carbohydrates, lipids (fats	PowerPoint presentations	assessment		Deen merkine
algestion	and oils), proteins, vitamins, minerals, dietary	Group discussion Video clips	Home work		- Peer marking
	fibre and water, and why	Peer support/			- Self marking
	each is needed	Matching activities			- Verbal feedback
	calculations of energy	Worksheets	Summative assessment		- Grading (Emerging,
	requirements in a healthy				Developing, Secure)
	dally diet.				
	The consequences of				Summative assessment
	imbalances in the diet,				
	including obesity,				
	starvation and deficiency				
	diseases.				
	The tissues and organs of				
	the human digestive				
	system, including				
	adaptations to function				
	and now the digestive				
	enzymes simply as				
	biological catalysts)				

	the importance of bacteria in the human digestive system. plants making carbohydrates in their leaves by photosynthesis and gaining mineral nutrients and water from the soil via their roots			
Autumn 2 The particulate nature of matter Atoms, elements and compounds	The properties of the different states of matter (solid, liquid and gas) in terms of the particle model, including gas pressure changes of state in terms of the particle model A simple (Dalton) atomic model differences between atoms, elements and compounds chemical symbols and formulae for elements and compounds conservation of mass changes of state and chemical reactions	Generic: PowerPoint presentations Group discussion Video clips Peer support/ Matching activities Worksheets	Completion of mini tasks in lessons and formative assessment Home work Summative assessment	 Individual feedback (WWW-EBI) Peer marking Self marking Verbal feedback Grading (Emerging, Developing, Secure) Summative assessment

Spring 1			Completion of mini tasks	- Individual feedback
		Generic:	in lessons and formative	
	Simple machines give	PowerPoint presentations	assessment	(******
Energy changes	bigger force but at the	Group discussion		- Peer marking
and transfers	movement (and vice	Video clips Peer support/	Work created for display	- Self marking
	and displacement	Matching activities	Home work	- Verbal feedback
	unchanged heating and thermal	Worksheets	Cummentine accomment	- Grading (Emerging, Developing, Secure,
	equilibrium: temperature difference		Summative assessment	Mastering)
	between 2 objects			Half term summative
	transfer from the hotter			assessment
	to the cooler one,			
	through contact			
	(conduction) or radiation: such transfers			
	tending to reduce the			
	temperature difference;			
	use of insulators			
	other processes that			
	involve energy transfer:			
	dropping an object			
	completing an electrical			
	circuit, stretching a			
	spring, metabolism of			
Cranin or O	food, burning fuels			the difficult for a discret
<u>Spring 2</u>	Depreduction in	Conoria	Completion of mini tasks	- Individual feedback
	humans (as an	PowerPoint presentations	assessment	(WWW-EBI)
Reproduction	example of a	Group discussion		- Peer marking
	mammal), including the structure and	Video clips Peer support/	Work created for display	- Self marking
	function of the male	Matching activities	Home work	- Verbal feedback
	and female	Worksheets		- Grading (Emerging,
	reproductive systems,		Summative accessment	Developing, Secure,
			Summative assessment	Mastering)

	(without details of			
	hormones), gametes,			Half term summative
	fertilisation, gestation			assessment
	and birth, to include			
	the effect of maternal			
	lifestyle on the foetus			
	through the placenta			
	reproduction in			
	plants, including			
	nower structure, wind			
	fortilisation seed and			
	fruit formation and			
	dispersal including			
	quantitative			
	investigation of some			
	dispersal mechanisms			
Summer 1			Completion of mini tasks	- Individual feedback
	The concept of a pure	Generic:	in lessons and formative	
	substance	PowerPoint presentations	assessment	(******
	mixtures, including	Group discussion		- Peer marking
Duro and	dissolving	Video clips	Work created for display	- Self marking
Fule and	diffusion in terms of the	Peer support/		
substances	particle model	Matching activities	Home work	- Verbal feedback
Substances	simple techniques for	worksheets		- Grading (Emerging,
	separating mixtures:		Summative assessment	Developing, Secure,
	filtration, evaporation.		Summative assessment	Mastering)
	distillation and			
	chromatography			Half term summative
	the identification of pure			assessment
	substances			
	substances			

Summer 2			Completion of mini tasks	- Individual feedback
-	Forces as pushes or pulls,	Generic:	in lessons and formative	(WWW-FBI)
Forces	arising from the interaction	PowerPoint presentations	assessment	
	between 2 objects	Group discussion		- Peer marking
	using force arrows in	Video clips	Work created for display	- Self marking
	diagrams, adding forces in	Peer support/	Home work	
	1 dimension, balanced and	Matching activities		- Verbal feedback
	unbalanced forces.	Worksheets	Summative assessment	- Grading (Emerging,
				Developing, Secure,
	Moment as the turning		Completion of mini tasks	Mastering)
	effect of a force		in lessons and formative	
	forces: associated with		assessment	Half term summative
	deforming objects;		Monte anosta diferi diambar	assessment
	stretching and squashing –		work created for display	
	friction between surfaces		Homowork	
	with pushing things out of		Home work	
	the way: resistance to			
	motion of air and water		Summative assessment	
	forces measured in			
	newtons, measurements of			
	stretch or compression as			
	force is changed.			
	Force-extension linear			
	relation; Hooke's Law as a			
	special case			
	work done and energy			
	changes on deformation			
	non-contact forces: gravity			
	forces acting at a distance			
	on Earth and in space,			
	forces between magnets,			
	and forces due to static			
	electricity.			