

Hallaton CE Primary School – The Big Picture – Science

Our Over-arching Intent	That every child grows and flourishes through enjoying learning and has access to a rich, rounded, connected, coherent and progressive curriculum									
Aims of our Curriculum	To develop successful, engaged learning and who are knowled make progress and	To develop confident, articulate individua lead safe, healthy and fulfilling lives communities in which they live now and in			in the	To develop responsible, happy citizens of the world who have the capacity to make positive contributions to society.				
School Motto	Learn, Grow, Flourish									
Learning Powers	Be Responsible	Be Respectf	ul	Be Re	silient	Ве	e Reflective		Be Remarkable	
The Intrinsic Core of Science – our Intent – for all pupils	To develop scientific knowledg conceptual understanding thr the specific disciplines of bio chemistry and physics, plus E Science	blogy, science through different types of			To equip pupils with the scientific knowledge required to understand the uses and implications of science, today and for the future.			their s	Develop pupils' spoken language: their scientific vocabulary and their ability to articulate their thoughts clearly and precisely.	
We will develop the knowledge and skills that children need to succeed	Develop children's vocabulary acquisition and oracy skills so that they can articulate their thoughts both verbally and in written form, in order to communicate effectively in a range of situations.				 Provide opportunities for children to be exposed to a wide variety of cultures, topics, themes and points of view to counter-balance the lack of diversity in our local demographic at our largely white British school, in order to prepare them for life in modern Britain. 					

			-	•	-		School Big Ide					
		Expl		stigate Whol	e School Big	1	d to the planne	d components				
Physics			Chemistry		•	Biology			Earth Scien			
P1: The universe follows unbreakable rules that are all about forces, matter and energy.	P2: Forces are different kinds of pushes and pulls that act on all the matter that is in the universe. Matter is all the stuff, or mass, in the universe.	P3: Energy, which cannot be created or destroyed, comes in many different forms and tends to move away from objects that have lots of it.	C1: All matter (stuff) in the universe is made up of tiny building blocks.	C2: The arrangement, movement and type of these building blocks, and the forces that hold them together or push them apart, explain all the properties of matter (e.g. hot/cold, soft/hard, light/heavy, etc).	C3: Matter can change if the arrangement of these building blocks changes.	B1: Living things are special collections of matter that make copies of themselves, use energy and grow.	B2: Living things on Earth come in a huge variety of different forms that are <u>all</u> <u>related</u> because they all came from the same starting point 4.5 billion years ago.	B3: The different kinds of life, animals, plants and microorganis ms, have evolved over millions of generations into different forms in order to survive in the environments in which they live.	E1: The Earth is one of eight planets that orbit the sun.	E2: The Earth is tilted and spins on its axis leading to day and night, the seasons and the climate.	E3: The Earth is made up of several layers, including a relatively thin rocky surface which is divided into tectonic plates. The movement of these plates leads to many geologic events e.g. earthquakes and geographica features e.g. mountains.	
Develop un of Key Then (Schema) Implemen Early Years	itation: Hov	Animals inc v do we del Children's deve Characteristics The Human Bo	iver our Cu of Effective Tea dy and The Seas	ns, Plants, Li Eart rriculum? e supported as th ching and Learn ons. A full outlir	ving Things h & Space, E ney make sense ing, including c ne of the EYFS s	& Habitats, lectricity, I e of their work opportunities t specifically link	Evolution & Inh Materials, Scien d through a variety to explore, observe ted to Science can I	tists & Invent of activities and , investigate and pe found in our S	ors experiences th find out about science Overvie	at reflect upon t Materials, Anim	he als, Plants,	
Progression	l internet in the second s	Progression in	Learning from F	•			e Overview and En	d Points docum	ent.			
				Planned	l Compone							
Working Scientifically Year 1 Investigation Skills		Ph	nysics	Everyday	Chemistry materials (C1		Biology Animals including humans – senses, classification of vertebrates (B2, B3) Plants and growth (B2)		Season	Earth Science Seasonal Changes across the year		
Year 2 Investigation Skills				Use of eve	Use of everyday materials		Living things & their Habitats (B1, B3) Plants and growth (B2) Animals including Humans		B1, The Env	The Environment		

	Planne	d Componen	ts: Lower Key Sta	ge Two (Year 3 & 4)						
Working Scientifically	Physics		hemistry	Biology	Earth Science					
Year 3 Investigation Skills	Light (P1, P3)	Light (P1, P3) Rocks (C1, C2,		Animals including Humans (B3) Rocks (E3)					
	Forces & Magnets (P2)			Plants (B1, B2, B3)						
Year 4 Investigation Skills	Sound (P1, P3)	Materials: Sta C2, C3)	ates of Matter (C1,	Animals including Humans (B3):					
	Electricity (P1, P3) Electricity (C2)		Living Things and their Habitats (B2, B3)		S					
	Planne	d Componen	ts: U <mark>pper Key Sta</mark>	ge Two (Year 5 & 6)						
Working Scientifically	Physics	C	hemistry	Biology	Earth Science					
Year 5 Investigation Skills	Forces (P2)	Properties an materials (C2	0	Animals incl. Humans: Human Development (B1)	Earth and Space (E1, E2)					
				Living things and their habitats (B2, B3)	5					
Year 6 Investigation Skills	Light (P1, P3)			Evolution and inheritance (B3)						
	Electricity (P1, P3)			Animals incl Humans: The Hea Staying Healthy (B3)	rt &					
				Living things and their habitats (B2, B3)	5					
Impact	Most children achieve the expected standard against the National Curriculum for the Themes they study in Science.									
	Children become									
ai	eflective, engaged learners who enjoy le re knowledgeable and skilled, make prog ow remarkable they are.			ependent individuals, who can lead ng lives in the communities in which future.	Responsible and respectful citizens of the world who have the capacity to make positive contributions to society.					