

Science Our Helpringham HEART

SCHOOL VALUES	Нарру	Equal	Aspirational	Resilient	Team			
INTENT – We come to school every day to								

	Develop our sense of self	Develop our sense of others	Develop our sense of the world	
CURRICU	understand the methods, processes and uses of science	work collaboratively understanding that in science all ideas are valid	understand how science has changed the world and is vital for our developing	
LUM	recognise the power of rational explanationdevelop a sense of excitement and	engage in class debates challenging the views and ideas of others in a respectful		
VISION	curiosity	way	world	
	build up a scientific vocabulary that can be used accurately	be part of a team when undertaking experiments showing all roles are important	have a knowledge of historical scientific discoveries and inventions	

IMPLEMENTATION

PRIN S F EXCE	EN CIPLE FOR ELLEN T	Questioning 1:1/ class discussion Quizzes Class debates	High Expectations Use of correct scientific vocabulary. High quality investigations and experiments	Scaffolding Cornerstones National Curriculum Use of scaffolding to help with writing scientific reports	Parent Partnership Workshops Links to parents working within a STE field	Assessment End of term/year Children's work Work scrutiny Professional discussions	Use of technology Use of computers/laptops/tab lets for research and investigation BBC documentaries such as 'Planets with Brian Cox'	Inspirational and memorable curriculum Projects Visits or virtual visits where appropriate such as Magna or a virtual visit about electricity	Active Learning Hands on participation in experiments and tests	Engaging Learning Environment Displays of children's Work Resources	Differentiation By outcome Level of support Questioning
		Reading	Writing Phonics	Maths	Science H	story Geography	Art	DT Music	PE	Computing PSHI	E RE
Reading- Comprehension about scientists, discoveries and inventions. Reading non-fiction texts to research key ideas or people for our topics Writing- Creating experiment reports, fact files or biographies about scientists						,					
_)F		Maths- Measuring and timing in experiments, creating graphs and charts								
CURRICU LUM History- Learning about historical Scientific figures and inventions, understanding the development of ideas over time Art- Scientific drawing skills											

TERMLY					
FIVE TO	High Quality Texts	Memorable Experience	Hands on Learning	Celebration of Children's Work	Community Engagement
THRIVE					

Computing- Using research skills and alternative ways of recording such as using the tablets

AS	SESSM	Daily, verbal feedback	Cold Maths	Extended writing pieces	Formative Assessments	Summative Assessments	Tormly phonics screening	Multiplication Skills
	ENT	Daily, verbai reedback	Cold Matris	Extended writing pieces	Formative Assessments	Summative Assessments	Termly phonics screening	iviuitiplication skills

IMPACT – How will we know?

QUALITY OF EDUCATION	BEHAVIOUR AND ATTITUDES	PERSONAL DEVELOPMENT	
- High engagement	- Engagement in learning	- Independence	
- Children inspired to be independent thinkers, researchers and learners	- Resilience	- A Love of learning	
- Knowledge development	- Children see challenges as opportunities	- Children are able to care for their physical and mental wellbeing in a healthy way	
- Children prepared for the next step of their education, futures and careers	- Children have pride in themselves and their work	- Children are curious, creative and courageous	
	- Children are able to take risk and responsibility		

EVALUATION

RING

	High quality outcomes	Innovation	Communication	Developing staff	Improving and changing
	- Data	- Share new ideas	- All parties know what is expected from our	- High quality CPD linked to the school	- Review
REVIEW	- Progress in books	- Outward looking	curriculum through effective communication	development plan	- Reflect
	- Pupil voice	- Reactive to learning opportunities	- Governors ask challenging questions which	- Sharing of ideas and knowledge	- Discuss
	- Parent voice		teachers and TAs answer confidently	 Working with others outside the school 	- Learn
MONITO	Class teachers and teaching assistants	Subject Leaders	Headteacher & Governors	Locality Lead & County Council	External partners e.g. OFSTED