Foston CE, Terrington CE VA & Stillington Primary Schools
Science Subject Long Term Plan
'Love, Learn & Grow Together'

Subject: Science	**Golden Threads & Key Concepts:** **Subject Intent:** Children to learn a deep curiosity about the world around them, and to experience the wonder which comes with gaining a knowledge and understanding about the processes and systems they can and can't see. • The ability to think independently and raise questions about working scientifically and the knowledge and skills that it brings. • Confidence and competence in the full range of practical skills. • Excellent scientific knowledge and understanding which is demonstrated in written and verbal explanations. • Scientific enquiry skills to be embedded in each topic throughout the school to allow the children to build upon prior knowledge. • The ability to undertake practical work in a variety of contexts.	**Curriculum Enhancers:** Sustainability Creativity Diversity Community

Progression	**EYFS A**	**EYFS B**	**KS1 A**	**KS1 B**	**KS2 A**	**KS2B**	**KS2 C**	**KS2 D**
Autumn 1	Autumn All About Me	Human body All about me	Materials ***Fair testing*** Interpreting and communicating results Evaluating	Changes in materials Fair testing ***Interpreting and communicating results***	Adaptations (Y3) Humans and animals over time (Y6) Researching using secondary sources Observing and evaluating **Interpreting and communicating results**	Space (Y5) *Katherine Johnson* ***Investigating Models*** Researching using secondary sources Interpreting and communicating results	Notable Scientists Researching using secondary sources	Magnetism (Y3) Forces (Y5) *William Gilbert* ***Investigating Models*** Setting up tests Observing and measuring Interpreting and communicating results
Autumn 2	Light	Light	Building things ***Fair testing***	Human life cycle ***Observing***	Ecosystems (Y4) Sustainability (Y5) *Jane Goodall*	Rocks, soils and fossils *Mary Anning*	Adaptations (Y3) Humans and animals over time (Y6)	Light and Dark (Y3)-6 Light (Y6)-6

			Interpreting and communicating results Recording data Evaluating	Researching using secondary sources Interpreting and communicating results	***Observing*** Researching using secondary sources Recording data Interpreting and communicating results	***Investigating Models*** Researching using secondary sources Interpreting and communicating results	Researching using secondary sources Observing and evaluating **Interpreting and communicating results**	*Thomas Edison* Setting up tests Observing and measuring Recording data
Spring 1	Polar Habitats Climate change	Woodland habitats Rainforest habitats	The animal kingdom Researching using secondary sources *Jane Goodall*	Habitats Researching using secondary sources Observing	Electricity *Michael Faraday* Investigating models Setting up tests Observing and measuring Recording data	Forces and Magnets (Y3) Forces (Y5) *Isaac Newton* ***Investigating Models*** Setting up tests Observing and measuring Interpreting and communicating results	Electricity Investigating model Setting up tests Observing and measuring Recording data	Diet and Lifestyle (Y6) Observing and measuring Researching using secondary sources Investigating Models Researching using secondary sources
Spring 2	Growing plants and growing babies	Growing animals and spring	Plants **Observing over time** Investigating models	Plants *Jane Colden* **Observing over time** Investigating models	Sound Y4 *Alexander Graeme Bell* Investigating models Setting up tests Observing and measuring Recording data	Raw and synthetic materials (Y3)- 6 Properties and changes of materials (Y5) Fair testing Recording data Evaluating ***Interpreting and communicating results***	The ecosystem (Y4) Sustainability (Y6) ***Observing*** Researching using secondary sources Recording data Interpreting and communicating results	Human anatomy (Y4)-6 Reproductive life cycles (Y5) -6 *Alexa Canady* ***Investigating Models*** Researching using secondary sources Interpreting and communicating results

Summer 1	Transport- forces and movement	Journeys- forces and movement	Extraordinary Scientists Researching using secondary sources	Seasonal changes Observing	States of Matter (Y3) Separating Mixtures (Y5) Investigating models Setting up tests Observing and measuring Recording data Interpreting and communicating results	Plants *George Washington Carver* **Observing over time** Investigating models	States of matter (Y3)- 6 Separating mixtures (Y5)- 6 Investigating models Setting up tests Observing and measuring Recording data Interpreting and communicating results	Plants Observing over time **Investigating models**
Summer 2	Under the sea- Floating and sinking	Summer	Seasonal Changes Observing	Scientific Enquiry Fair testing	Digestive System (Y3/4) Circulatory System (Y5/6) ***Investigating Models*** Researching using secondary sources Interpreting and communicating results	Light and dark (Y3) Light (Y6) Setting up tests Observing and measuring Recording data	Y3/4 - The Digestive System Y5/6 - The Circulatory System ***Investigating Models*** Researching using secondary sources Interpreting and communicating results	Raw and synthetic materials (Y3)- 6 Properties and changes of materials (Y5) Fair testing Recording data Evaluating ***Interpreting and communicating results***