Science- Intent

"**The important thing is not to stop questioning**. **Curiosity has its own reason for existing**.'

Albert Einstein

Why is Science an important subject for children to experience?

At The Manor we believe that Science is significant to a child's development because it aims to prepare and inspire pupils to question and explore the wider world. We strive to ensure that lessons achieve the three aims of the science curriculum so pupils have the skills to engage with knowledge, skills and recognise the links to the world around us. We believe in curiosity and encourage our pupils to question, explore and engage with science through engaging and stimulating experiences.

Implementation

We encourage children to ask and explore big questions and make connections between their learning and the wider world.

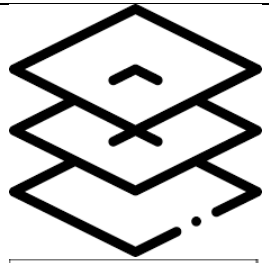
Science is taught in a way which guides the pupil's big questions and makes links between what they know and the wealth of knowledge that is out there. It enables pupils to express an interest in the questions they ask and guides them to discover the answers for themselves.

We want to develop each child's vocabulary, pulling on those scientific terms and allowing them to be used more freely in conversations about our universe and how it works. Alongside the knowledge and scientific terms we want to open the children's eyes to the skills that are developed through investigations, observations and experiments that connect the dots between the world now and the future it holds for us.

Golden threads within this subject.

Subject Name Science	**Subject lead: Daniella King**	Date 2021-2022

How do the following 'Golden Threads' work within this subject?

 **Christian Values**	 **Language Rich**	 **In depth**	 **Knowledge Rich**	 **Active Learning**
This subject supports our Christian Values by…	This subject supports children's language use and acquisition by…	This subject provides in depth learning through…	This subject provides children with age appropriate knowledge by…	This subject allows for active and engaged learners by…
Developing **Confidence,** by allowing pupils to step out of their comfort zone of writing and 'being taught'.	Exploring key vocabulary during sessions to reflect the learning.	Allowing pupils to build on their knowledge taught and to make links between the curriculum from Year 1-6.	Making links between science and everyday living, how has this invention/creation/finding impacted our lives?	Providing pupils with the opportunity to be set up their own investigations, allowing for an increase in child led learning, what did they find out? How can we build on this?
Developing **Respect,** by instilling respect for the equipment and others ideas/suggestions and conclusive results.	By highlighting key language and having the opportunity for pupils to use this confidently in their writing/explanations/conclusions.	Through allowing the pupils to explore more independently, they have an in depth knowledge of their findings.	Making observations within investigations and concluding their findings with the knowledge learnt.	Exploration with equipment allows pupils to find their own conclusions, rather than teacher led.
Developing **kindness,** through understanding that their scientific	Providing children with texts/reading opportunities	Follows a broad range of topics across each	Providing children with the knowledge to be able to plan,	Pupils are engaged by the observations they are making, hands on

enquiries may conclude different results.	to support ongoing topics of the curriculum and refer to when in lessons.	year group, so that there is wide range of topics covered.	predict, test and analyse observations and results in a range of contexts.	investigations and beginning to become child-led.
	Use of sentence stems allows the pupils to articulate their findings/make confident explanations.			