Science							
Vision and approach for Science	Key Concepts		Content and Sequencing				
At Swanmore, our science curriculum encourages children to	Life	Organisation	Acting as scientists, they will learn skills and knowledge				
develop a sense of excitement and curiosity about the world	Force	Cause and effect	necessary to solve problems, discovering how science can be				
around them, both now and in the future.	Changes	Systems	used to explain what is occurring, predict how things will				
Through building up a body of key knowledge and concepts, pupils	Reactions	Diversity	behave and explore possible causes.				
are encouraged to recognise how phenomena can be explained and	Matter	Variation	Learning is sequenced so that knowledge is built upon each				
develop a sense of excitement and curiosity. It is our wish that as			year e.g. knowing that materials				
children leave Swanmore they are equipped with the knowledge,			can be grouped; understanding that materials can be classed a				
skills and enthusiasm to continue on their scientific learning journey.			solids, liquids or gases; knowing that all matter has mass.				

children leave Swanmore they are skills and enthusiasm to continue or	equipped with the knowled	lge,		c	_	puped; understanding that liquids or gases; knowing t	materials can be classed as
			Curri	culum Drivers			
Experiential	Curiosity	Inc	dependence	Resilience		Rich in language	Community
Science teaching and learning enables children to understand that Scientists contribute in developing our understanding of the world. Wherever possible, first hand practical experiences are used to engage the children and support retention of concepts. Our curriculum, both in class and during offsite visits, provides opportunities for children to build upon and develop their scientific knowledge.	Science teaching and learning begins with asking questions. Throughout a unit of learning, children are encouraged to question phenomena with a sense of excitement and curiosity.	exper have problen the	nrough practical iences, children will the opportunity to n solve and reflect on eir work to make mprovements.	Science teaching str enable children to pe with their learning a challenge they face. T a longitudinal stud children learn to susta focus.	ersevere and the Through y, the	By using project related vocabulary, children will become familiar with, and increasingly able to use, scientific vocabulary to describe and explain their findings.	Children will have the opportunity to share their learning. They will work in a practical manner and have the opportunity to participate and contribute in an active way.
Links with Mathematics and English			Progressive		Inclusive		
 Explanations about experiments Biographies about scientists Opportunities to apply their Mathematics skills: Data collection and analysis Evidence of the spredictions using the predictions using the predictions of the spredictions using the predictions using the prediction and analysis 			iry will be evident in books. e scientific process will be clear – making ng evidence to draw conclusions. elk confidently at each stage about the big ideas in ildren applying their understanding after the unit		 Task varied to support children to access the task. Learning is challenging. Children's starting point are identified using assessment tools and teaching builds on prior knowledge. The curriculum is practical to engage all. 		

Biographies about scientists	predictions using evidence to draw conclusions.	Children's starting point are identified using
Opportunities to apply their Mathematics skills:	➤ Children can talk confidently at each stage about the big ideas in	assessment tools and teaching builds on prior
Data collection and analysis	Science.	knowledge.
Rounding, averages	Evidence of children applying their understanding after the unit	The curriculum is practical to engage all.
	of learning or another subject for example learning about states of matter and then applying this in their own experiments	The outside environment and other resources are used to aid understanding.