

Curriculum Progression Map





Curriculum Intent

At St. Nicholas School we aim to develop scientific exploration and investigation through personalised learning programmes, to develop students curiosity and wonder about themselves and the world in which they are growing.

Science

The Science schemes of work will provide opportunities to explore and experiment, and encourage pupils to develop a lifelong interest in the natural world around them. Programmes of study aim to give pupils a progressively deeper understanding of the central concepts of science.

Students are taught through hands on explorational learning activities, with a focus on investigation, problem solving and practical life experiences.

Science exploration is taught in the classroom: in our outside areas; at forest school and out in the wider community.









Nicholas School Canterbury Curriculum Progression Map					
C	ak	Science			
Key Stag Science (
Year 1	Animals Including Humans Twinkl PlanIt Yr 1 Seasonal changes autumn/winter		Plants Twinkl Planlt Yr 1	Floating and Sinking Everyday Materials Twinkl PlanIt Yr 1	
Year 2	Animals including Humans <i>Twinkl PlanIt yr 2</i>		Seasonal changes Spring / Summer Twinkl PlanIt yr 1	The Environment <i>Twinkl PlanIt Yr</i> 2	
Science C					
Year 1	Earth and	Space TWINKL PlanIt	Light and Sound EQUALS Scheme of Work	Living Things and Their Environments TWINKL Living Things and Their Habitats Yr 2.	
Year 1 Year 2	Earth and EQUALS/	TWINKL PlanIt Growth Animals umans 2- EQUALS/	EQUALS Scheme of Work Plants 1 – Green Plants	Their Environments	
	Earth and EQUALS/	TWINKL PlanIt Growth Animals Jumans 2- EQUALS/ anit	EQUALS Scheme of Work Plants 1 – Green	Their Environments TWINKL Living Things and Their Habitats Yr 2.	

C	oak Science		
Key Stag Science			
Year 1	Biology: Variation and Classification	Chemistry: Separating materials and their properties	Physics: Electricity and Magnetism/ Light and Sound
Year 2	Physics: <i>The Earth and Beyond</i>	Biology: Keeping Healthy	Chemistry : Changing Materials
Year 3	Biology: Living things and their environment	Physics : Force and <i>Motion</i>	Chemistry: Grouping and classifying materials and their properties
Key Stag Science Year 1		Biology and Chemistry <i>Health, Disease and</i> <i>Medicine</i>	Biology and Physics Senses
Year 2	Biology Animals and environments	Biology Plants	Physics Forces & Motion





St. Nicholas School Canterbury



Science

Curriculum Impact Key Stage 1 Learning Specific Skills:

- Children will engage in practical exploration and investigation activities that encourage curiosity about the world to answer questions.
- Children will begin to ask their own questions.
- Children will begin to observe changes, notice patterns and group things.
- Children will begin to use drawings and photos to communicate about their investigation.
- Children will begin to transfer the knowledge learnt to different contexts or environments.

Key Stage 2 Learning Specific Skills:

- Children will carry out investigations, exploring and testing everyday phenomena and to talk about their findings.
- Children will become familiar with some scientific language.
- Children will begin to record their investigation and results through drawings, diagrams and charts.
- Children will begin to draw conclusions from their investigation.
- Children will begin to access reference sources.
- Children will be encouraged to link their scientific knowledge to their everyday experiences.

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Science

Curriculum Impact Key Stage 3 Learning Specific Skills:

- Students will become familiar with some scientific language and answer scientific questions.
- Students will be aware of safety procedures involved with investigations.
- Students will become aware that their actions have consequences, looking at cause and effect.
- Students will begin to make predictions about what will happen.
- Students will collect and record evidence as part of scientific inquiry.
- Students will begin to interpret observations and data, to identify patterns.
- Students will begin to evaluate investigations to draw conclusions.
- Students will link their scientific knowledge to their everyday experiences.

Key Stage 4 Learning Specific Skills:

Learning Specific Skills:

- Students will use scientific investigation to answer scientific questions.
- Students will be able to explain why they follow safety procedures involved with investigations.
- Students will be able to predict the consequences of their actions.
- Students will demonstrate fair testing and repeatability within their recording of investigations.
- Students will use scientific language to present there their enquiry.
- Students will show the data collected and the patterns observed within their recording.
- Students will present their conclusions.
- Students will draw on reference sources to expand their learning.