



SCIENCE

CURRICULUM MAP

Building Scientific Knowledge Progressively



LIVING THINGS



HABITATS



MATERIALS



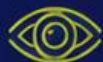
ELECTRICITY



EARTH & SPACE



EVOLUTION



VISION

Every child,
Every chance,
Every day.



MISSION

Love one another,
as I have loved you.

CARES



Compassion



Ambition



Rejoice



Excellence



Service



WHOLE SCHOOL
CURRICULUM
OVERVIEW

EYFS – YEAR 6

OUR SCIENCE CURRICULUM

A carefully sequenced curriculum that builds knowledge, skills and scientific thinking from EYFS to Year 6.



BIOLOGY

Understanding living things and life processes



Children develop an understanding of living organisms, their environments and how life changes over time.



CHEMISTRY

Understanding materials and how they change



Children investigate materials, their properties and how substances behave.



PHYSICS

Understanding forces, energy and the universe



Children explore how the physical world works through enquiry and investigation.



WORKING SCIENTIFICALLY



Observe



Question



Investigate



Record



Explain



Evaluate

Working Scientifically is woven through every unit and every year group.

Knowledge Builds Over Time



EYFS

Exploring and wondering



KEY STAGE 1

Observing and investigating



LOWER KS2

Developing knowledge and understanding



UPPER KS2

Thinking critically and explaining



SECONDARY SCIENCE

Building on firm foundations

Each unit has been carefully sequenced so that new learning builds upon what children already know.

Our Curriculum is Built Around...



Progressive knowledge



Practical enquiry



Scientific vocabulary



Evidence-based reasoning



Retrieval practice



Adaptive teaching



Deep thinking through SOLO

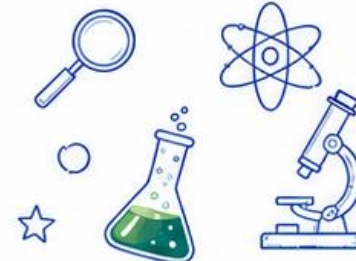
“Great science isn't taught in isolated lessons... It is built through carefully sequenced experiences over time.”





YEARS 1 TO YEAR 3

Building strong scientific knowledge through curiosity, observation, practical enquiry and investigation.



Working Scientifically



Comparative Testing
Fair & comparative tests



Observe Over Time
Observing changes across time



Pattern Seeking
Identifying patterns & relationships



Identifying & Classifying
Grouping, sorting & classifying



Research
Using secondary sources of information



These enquiry skills are explicitly taught and revisited throughout Years 1–3.

Autumn 1

Autumn 2

Spring 1

Spring 2

Summer 1

Summer 2

Year 1



Biology



Plants



Biology



Animals Including Humans Part 1



Biology



Animals Including Humans Part 2



Chemistry



Everyday Materials



Physics



Seasonal Changes



Inquiry



How Can We Help Local Wildlife?



Year 2



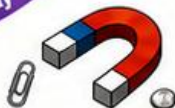
Biology



Plants



Chemistry



Uses of Everyday Materials



Biology



Animals Including Humans



Biology



Living Things & Habitats



Biology



How Do Living Things Depend on Each Other?



Inquiry



How Can We Care for Our Planet?



Year 3



Chemistry



Rocks



Biology



Animals Including Humans



Physics



Light



Biology



Plants



Physics



Forces & Magnets



Science in Action



How Can We Stay Healthy?



KNOWLEDGE PROGRESSION



YEAR 1

Observe • Identify • Describe



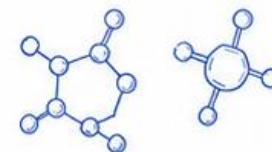
YEAR 2

Compare • Explain • Apply



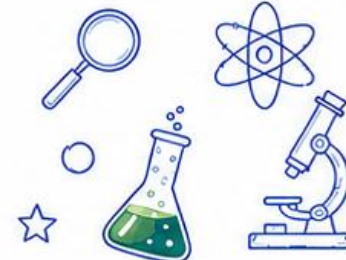
YEAR 3

Predict • Investigate • Conclude



YEARS 4 TO YEAR 6

Building strong scientific knowledge through curiosity, observation, practical enquiry and investigation.



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 4	Chemistry States of Matter 	Biology Living Things & Habitats 	Biology Animals Including Humans 	Physics Sound 	Physics Electricity 	Inquiry How Can We Protect Our Water?
Year 5	Chemistry Properties & Changes of Materials (Part 1) 	Chemistry Changes of Matter 	Biology Life Cycles 	Physics Earth & Space 	Biology Reproduction in Plants & Animals 	Inquiry Explore & Enquire: Environmental Study
Year 6	Chemistry Light & How We See 	Chemistry Evolution & Inheritance 	Physics Electricity 	Biology Circulatory System & Health 	Physics Forces 	Inquiry Sustainable Energy

Working Scientifically



Comparative Testing

Fair & comparative tests



Observe Over Time

Observing changes across time



Pattern Seeking

Identifying patterns & relationships



Identifying & Classifying

Grouping, sorting & classifying



Research

Using secondary sources of information



These enquiry skills are explicitly taught and revisited throughout Years 4–6.



KNOWLEDGE PROGRESSION



YEAR 4

Gather • Record • Explain



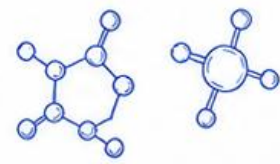
YEAR 5

Compare • Analyse • Evaluate



YEAR 6

Critique • Apply • Conclude





SCIENCE AT A GLANCE

Everything you need to know about Science at St Stephen's on one page.



BIOLOGY

Understanding living things and life processes

- Plants
- Animals including Humans
- Living Things & Habitats
- Life Cycles
- Evolution & Inheritance

Exploring life, growth, adaptation and the natural world.



CHEMISTRY

Understanding materials and how they change

- Rocks
- States of Matter
- Uses of Everyday Materials
- Properties & Changes of Materials
- Exploring Materials (EYFS)

Investigating materials, their properties and how they behave.



PHYSICS

Understanding forces, energy and the universe

- Light
- Sound
- Electricity
- Forces & Magnets
- Earth & Space

Exploring how the physical world works and behaves.



WORKING SCIENTIFICALLY

The skills we use in every scientific enquiry

- Comparative Testing
- Observe Over Time
- Pattern Seeking
- Identifying & Classifying
- Research

Key enquiry skills used across all year groups.

OUR SCIENCE TOOLKIT



Vocabulary
Building and using scientific language.



Big Idea
The key concept driving the unit.



Learning Question
A question to guide our learning.



SOLO
Deep thinking through progressive challenge.



Retrieval Practice
Reviewing to remember and build connections.



Evidence Eddie
Using evidence to support our ideas.



Blodwyn
Reflecting, revising and improving our learning.



Assessment
Checking understanding and progress.



Adaptive Teaching
Meeting the needs of every learner.

"Small questions today become big discoveries tomorrow."



RETRIEVE
Recall what we already know to build strong foundations.

EVIDENCE EDDIE
Use evidence to explain, justify and prove ideas.

DEEPEN
Challenge thinking and make connections.

CHECK

Assessing understanding



LEARN
Gain new knowledge and explore big ideas.

EXPLORE
Ask questions and carry out investigations.

BLODWYN
Reflect on findings and improve understanding.



LINKED DOCUMENTS



Science Handbook



Medium-Term Plans



Knowledge Organisers



SOLO Progression



Vocabulary Progression



Knowledge builds progressively. Curiosity drives enquiry. Evidence develops understanding.



THANK YOU!

You've reached the end of our Science Curriculum Map.

This is the 'what and when' of our Science curriculum.
For the 'how' and the 'why', see our Science Handbook.



A CURIOUS MINDSET

We ignite curiosity and encourage children to ask questions about the world around them.



HANDS-ON ENQUIRY

We learn through practical experiences, investigation and exploring real phenomena.



BUILDING KNOWLEDGE

We build scientific knowledge progressively, connecting ideas and deepening understanding.



THINKING SCIENTIFICALLY

We develop key enquiry skills and learn to think critically, solve problems and make evidence-based conclusions.



PREPARING FOR THE FUTURE

We equip children with the skills, knowledge and confidence for the next stage of their journey.

What's Next?

You now know what we teach and when we teach it.
Next, explore the documents that bring our curriculum to life every day.

Together, we inspire curiosity, build knowledge and help every child think like a scientist.



At St Stephen's, Science is more than lessons – it's a way of thinking, questioning and discovering.



OUR MISSION

Love one another,
as I have loved you.
John 13:34



OUR VISION

Every child,
Every chance,
Every day.

OUR CARES VALUES



Compassion



Ambition



Rejoice



Excellence



Service

“

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

– Albert Einstein



LINKED DOCUMENTS



Science
Handbook



Medium-Term
Plans



Knowledge
Organisers



SOLO
Progression



Vocabulary
Progression

All documents work together to support outstanding science teaching and learning at St Stephen's.

