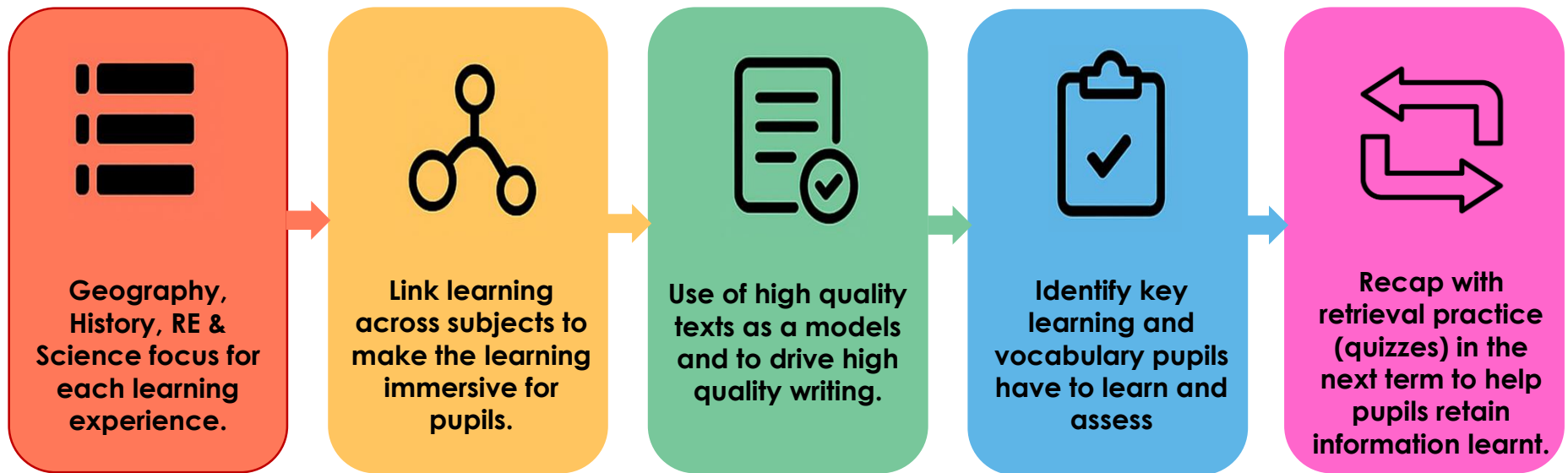


Curriculum Planning at Bosham



Bosham Primary School Learning Experiences


This is our curriculum overview for our learning experiences at Bosham. We teach English and most of non-core subjects together as this makes more sense to our pupils. We like to make connections across the curriculum to deepen our pupil's understanding and immerse them in engaging learning.

	Autumn				Spring				Summer						
	Autumn 1 (7 weeks)		Autumn 2 (7 weeks)		Spring 1 (6 weeks)		Spring 2 (6 weeks)		Summer 1 (6 weeks)		Summer 2 (7 weeks)				
Big Question	Do the choices we make matter to others?				How can we be the change that we want to see in the world?				How does life on earth thrive?						
Oppys (YR) Learning Experiences	Special You 		Season to Season 		What are Other Places Like? 		Beyond the Sky 		What is Africa Like? 		How Wonderful is our World? 		Day		
Big Question	Do the choices we make matter to others?				How can we be the change that we want to see in the world?				How does life on earth thrive?						
Toppers (Y1) Learning Experiences	In the Wild Wood Geography 	Toppers & the Portage Thief all 	Remember, Remember History 	Rats Toys & Kings History 	Wonderful Me Science 	Danger of Seal History & Geography 	focus	New Spring, New Life Science & RE (Christianity) 	Powerful Plants Science 	The carnival of the animals Science 	Arround the world RE (Judaism) 	Day			
Big Question	Are we all the Same?				Can one person make a change?				Do we all have the same values?						
Fevas (Y2) Learning Experiences	Deep Into the Woods Science 	Jesus as Saviour RE (Christianity) 	Experience	Incredible You Science 	Where in the World? Geography 	KSI Nativity	I Spy with my London Eye History & Science 	How Do Christians Pray? RE (Christianity) 	school	Men on the Moon History 	The Secret Garden Science 	Why do Christians follow Jesus & trust him? RE (Christianity) 	Wild & Wonderful Geography & Science 	How do Muslims show compassion? RE (Islam) 	sports
Big Question	Does adversity make us stronger?				What makes our world special?					Survive or Thrive?					
Lasers (Y3) Learning Experiences	Submit & Obey? RE (Islam) 	Rock of Ages History 	Learning	Bones & Other Bits Science 	Shadowy Showpiece Extraordinary Science 	Extreme Earth Science 	Where my wellies take me Geography 	Magnificent Magnets Science 	whole	Be Bold Be Strong RE (Christianity) 	Groovy Greeks History 	I Can Grow Science 	The Earth's Kingdom RE (Christianity) 	includes	
Big Question	Do all duties have to be fulfilled?				Are humans working against nature?					What makes a successful community?					
Wayfarers (Y4) Learning Experiences	Ruthless Romans History 	Duty Dharma & Divali RE (Judaism) 	School	Rescue Mission RE (Christianity) 	Faltered Planet Science & Geography 	Chew, Pop & You Science 	with a	Powerful Problems Science 	The Great Commission RE (Christianity) 	What a Wonderful World Geography 	The Mysteries of the Maya History 	Sound Science 	which		
Big Question	Where does true power come from?				What makes something truly human?				Could every journey lead to discovery?						
Sunbeams (Y5) Learning Experiences	Incredible Inventors Science 	Pathways RE (Judaism) 	Whole	Amazing Egyptians Geography & History 	Eucharist RE (Christianity) 	Fantastic Seals Science 	Heart's Highway Science 	Week	Humanism RE (Judaism) 	Raiders or Traders Geography & History 	Pilgrimage RE (Islam) 	The New World Geography 	Are We Alone? History & Science 	Week	
Big Question	What good comes from conflict?				Is there a limit to nature?				How do you want to be remembered?						
Catamarans (Y6) Learning Experiences	Night or Night Geography & History 	Whole	Night or Night Science 	Incarnation RE (Christianity) 	Reaching the roof of the world Geography 	Darwin's Discoveries Science 	Science	Resurrection RE (Christianity) 	KSI SATS	Path to Enlightenment RE (Judaism) 	Tails & Treasures Geography, History & Science 	Bosham School Production 	sports		



Bosham Learning Experience Focus

Our learning experiences are driven by either a focus on Geography, History, RE or Science. There will also be other subjects such as Art, Design & Technology, Computing and Music included in the learning experiences.

YR	Autumn		Spring		Summer	
	1.1.	1.2.	2.1.	2.2.	3.1.	3.2.
YR	Special You • History	Season To Season • Science	What are Other Places Like? • Science	Beyond the Sky • RE (Christianity)	What is Africa Like? • Geography	How Wonderful is our World? • RE (World Religions)
Y1	In the Wild Wood • Geography & RE (Judaism)	Rats, Toys & Kings • History	Wonderful Me • Science	New Beginnings, New Life • RE (Christianity) Focus	Powerful Plants • Science	The Carnival of the Animals • Science
	Toppers & the Porridge Thief • History	Remember, Remember • History	Danger at Sea • Geography & History			Around the World • RE (Christianity)
Y2	Deep in the woods • Science	Incredible You • Science	I Spy With My Little Eye • Science	How do Christians Pray • RE (Christian)	The Secret Garden • Science	Wild and Wonderful • Science
	Jesus as Saviour • RE (Christianity)	Where in the World • Geography Focus		Man on the Moon • History	Why do Christian follow Jesus • RE (Christianity)	How do Muslims show compassion • RE (Islam)
Y3	Submit or Obey • RE (Islam)	Bones & Other Bits • Science	Extreme Earth • Science	Magnificent Magnets Science	I Can Grow • Science	Groovy Greeks • History
	Rock of Ages • History	Shadowy showpiece • Science		Be Bold, Be Strong • Re (Christianity)		The Earth's Kingdom • RE (Christianity)
				Where My Wellies Take Me • Geography		
Y4	Ruthless Romans • History	Duty, Dharma and Diwali • RE (Hinduism)	Polluted Planet • Science	Chew, Poo & You • Science	What a Wonderful World • Science	Mysteries of the Maya • History
		Rescue Mission • RE (Christianity)		Powerful Problems • Science	The Great Commission • RE (Christianity)	Sound • Science 
Y5	Incredible Inventions • Science	Fantastic Beasts • Science	Amazing Egyptians • History	Humanism • RE (Humanism)	Are We Alone? • Science	Human Highways • Science
	Pathways • RE (Hinduism)			Pilgrimage • RE (Christianity)		
				Raiders or Traders • History		
Y6	Fight or flight • Geography & History	Fight or Flight • Science	Reaching the Roof of the World • Geography	Darwin's Discoveries • Science	Path to Enlightenment • RE (Buddhism)	Trails & Treasure! • Science
		Incarnation • RE (Christianity)		Resurrection • RE (Christianity)		

TALK LIKE A ... GEOGRAPHER 2

STATE YOUR POINT → **CAUSE AND EFFECT**

I think that ... In my opinion ... Therefore... so ... Thus ...
 I believe ... In my view ... As a result ... Consequently ...
 It is similar because ... This results in ...
 It is different because ...
 ... suggests that ...

EVIDENCE

I know this because ...
 Demonstrated by ... I have observed ...

IMPACT

POSITIVE

This is positive for ... because ...
 This is a benefit for ... because ...
 This is an advantage for ... because ...
 The main advantage is ...

NEGATIVE

This is damaging for ... because ...
 This is a disadvantage for ... because ...
 The problems caused are ...
 The main disadvantage is ...

compare

... and ... are the same because ... Similarly ...
 Equally ... Likewise ...
 In the same way ...

contrast

... and ... are different because ...
 Although ... however
 In contrast ...
 On the other hand ...

Key Vocabulary:

TALK LIKE A ... HISTORIAN 2

SEQUENCE IT → **ADD IT ON**

First of all ... In ...
 Then ... Next ... After that ...
 At the same time ... Meanwhile ...
 Not long after ... Immediately ...
 Finally ... In the end ...

USE EVIDENCE

Demonstrated by ...
 illustrated by ...

SUM IT UP

Ultimately ... To some extent ...
 Essentially ... To a certain degree ...
 Fundamentally ...

CAUSE AND EFFECT

In addition ... Moreover ... Also ...
 Similarly ... Furthermore ...
 As a result of ... Subsequently ...
 ... led to ... Thus ... Therefore ...
 Consequently contributed to ...
 ... stems from ...

LOOKING AT SOURCES

When was it created?
 Where was it created?
 Who created it?
 How was it made?
 What was its purpose?

What does it tell us about the period?
 What does it make us wonder?
 Is it reliable?

Key Vocabulary:

significant vital
 key important crucial
 essential fundamental
 minor insignificant
 irrelevant negligible
 inconsequential
 triggered by
 exacerbated facilitated
 tinderbox
 causation

Having different focuses for each learning experience allows pupils to approach their learning as Geographers, Historians, Scientists or Theologists.

TALK LIKE A ... SCIENTIST 2

NOTICE SOMETHING

I have noticed ...
 I have observed ...

MAKE A PREDICTION

I predict ... because ...
 Using what I know, I think ...
 My hypothesis is that ... because ...
 I have formulated the theory that ...

QUESTION IT

I wonder why ... ?
 I want to find out ...
 I want to investigate what would happen if ...
 I think ... if ...
 We can test this by ...

GET PLANNING

The variable I will change is ...
 The variables I will keep the same are ...
 We will be observing ... We will be measuring ...
 The best way to record this is ...

GATHER THE DATA

I have already noticed ...
 What I am seeing so far is ...
 The pattern I am seeing is ...
 I think there may be a connection between ...

DRAW A CONCLUSION

Looking at the results, I can see ...
 The evidence supports/ does not support my hypothesis because ...
 I can conclude that ...
 I think the odd result is because of ...

TALK LIKE A ... THEOLOGIST 2

REPORT

I know that ...
 ... believe ... strongly believe ...
 Many ... worship in ... follow ...
 ... celebrate ... They celebrate by ...
 The sacred scripture of ... is ...

RELIGION	FOLLOWERS
CHRISTIANITY	CHRISTIANS
BUDDHISM	BUDDHISTS
HINDUISM	HINDUS
ISLAM	MUSLIMS
JUDAISM	JEWS
SIKHISM	SIKHS

GIVE EVIDENCE

This can be seen ... For example ...
 For instance ...
 This is illustrated by ...

EXPLAIN

This shows ...
 This means ...
 Therefore ...

SHOW UNDERSTANDING

I really admire ... I find it fascinating that ... This story is about ...
 I find it interesting that ...
 ... is similar to reminds me of ...
 ... is different from ...
 I understand that ...

RETELL

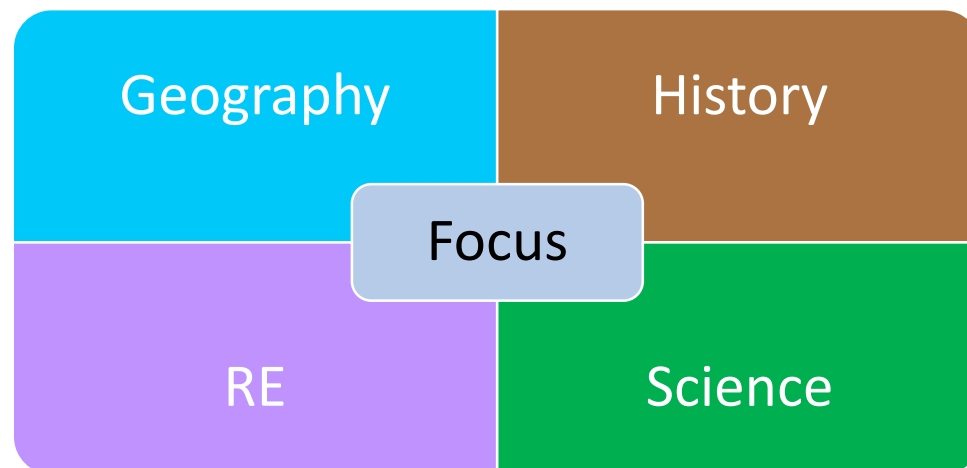
In the beginning ... First ...
 Then ... Next ... After that ...
 Meanwhile ... In the end ...
 even though ... however ... never the less ...

INTERPRET

I can see ... It says ...
 I think ... because ...
 Maybe ... Perhaps ...
 This tells me ...
 This makes me think ...

How do we plan our Learning Experiences?

- We choose the National Curriculum objectives to be covered using our subject coverage maps for Geography, History, RE & Science.
- We then select the relevant aspects of the National Curriculum for reading and writing to drive through the learning experience.
- From this we identify a key text to use throughout the learning experience. This will be used as a model for high quality writing (WAGOLL = What a Good One Looks Like).
- Then we create a display of relevant books that will support our learning in the classroom.
- We decide what we are going to assess and what tier 2/3 vocabulary that the children need to understand and use, this is then shared with the children in their books (Learning Experience Overview).
- We plan an exciting hook to inspire the children at the beginning of the learning experience.
- Now we then plan to include other non-core subjects that link with our learning.
- All of this learning leads to the children producing an authentic outcome.
- This outcome will have been built from a series of English lessons that prepare the children to produce a high quality written piece of work.
- This will include the knowledge, skills and vocabulary learnt through the learning experience.



High Quality Texts



Y4 Learning Experience - Polluted Planet



Key Text



Song of the Dolphin Boy
Elizabeth Laird



Somebody Swallowed Stanley
by Sarah Roberts

Supporting Texts



Environment Saving Our Planet
by Jessica Perini



The Extraordinary Life of Greta Thunberg
by Devika Jina

High Quality Text are used for every learning experience. There will be a lead text that will be used as a class reader and WAGOLL throughout the unit. There will also be a variety of supporting texts used to engage the pupils throughout the unit on display in the classroom.



Hook

Learning Experience Overviews

POLLUTED PLANET

Big Question - Are Humans Working Against Nature?

Big Picture: You will be learning about the importance of oceans and the effect of pollution. You will have a big picture because it will be the goal of pollution in our local area. You will then have about the different uses of matter and use all that you have learnt to write a persuasive letter to a local Member of Parliament.

Hook: Look at a picture of pollution. How do they make you feel? Look at the video of the Great Barrier Reef.

Engage and Explore

Why are oceans important?

- Locate the world's oceans.
- Find out why oceans are important and what they are used for.
- Predictors using 'The Song of a Dolphin Boy'.
- Prescriptive language - WAGOLL - key features.
- Explore key features of persuasive language.
- Write a paragraph: topic, supporting and concluding sentences about why oceans are important to you and others.

What might we be learning about in our science?

- Investigate pollution in our oceans.
- Go to Bosham Quay to investigate if there is pollution in Bosham harbor.
- Understand the impact of single use plastic on our oceans.
- Programme - WAGOLL - key features.
- Use paragraphs to write about pollution in our oceans and in Bosham Harbor and how we can minimize it.

What is the water cycle?

- Where does water come from?
- Understand the difference between solids, liquids and gases.
- Write a paragraph about the water cycle in your own words using scientific vocabulary.
- Investigating how scientific processes can change the state of some materials.

What can we do to save our oceans?

- WAGOLL - Summary of paragraphs and language of a persuasive letter.
- Write, edit and polish a persuasive letter to local MP about pollution.

Authentic outcome: Use persuasive language to write a letter to our MP about the effect of pollution in our area.

Key Learning	Key Vocabulary
Understand and describe the four stages of the water cycle	• Solids • Gases • Evaporation
Understand how states of matter change	• Change of state • Condensation • Precipitation
Name the key human and physical features of the local area.	• Collection • Water cycle

The learning experience overviews are then given to pupils so they can read through them. The key learning and new vocabulary, that they will learn, is listed in the table at the bottom. The class teacher will then discuss through what they are going to learn and the authentic outcome at the end.

Learning Experiences at Bosham Primary School

- Our writing process

Reflection at end of Learning Experience



Trips and / or Visitors



Reflection on your learning.

What my special someone thinks ...

What I think about my learning...

What Mrs Maloney thinks...

After each authentic outcome at the end of the learning experience pupils, parents and teachers will have a chance to reflect on the pupil's outcomes. This will be done by completing the following template called Reflection on Your Learning.



Authentic Outcome

Learning Experience Unit Plan

BPS Learning Experience planning document

Year 4 Spring Term 2025

Polluted Planet

Are Humans Working Against Nature?

Write a letter to a local MP about pollution and its effect on nature.

STEPS & DATES	Activities (English in green)	Learning Intention	Resources
HOOK and step 1 Week 1	WAGOLL: Hook or picture of pollution - class discussion about how it makes you feel. READING: Song of a Dolphin Boy - VIBES predict what do you think the book will be about from looking at the front cover? WRITING: Persuasive language - look at features of persuasive language and put together a persuasive letter about animals seen kept in cages (pets of letter grid).	Understand global climate and the effects of pollution caused by humans. Understand features of persuasive language.	Examples of persuasive language
Step 2 Week 2	WAGOLL: Why are oceans important and why are they important? Locate the world's oceans and why they are important to people around the world. READING: Song of a Dolphin Boy - VIBES WRITING: Write a short paragraph about why oceans are important to mammals and others.	Locate the world's oceans and understand why they are important. Use knowledge to write a paragraph why oceans are important.	Map of the world Equipment explained Photos of plastic pollution in oceans
Step 3 Week 3	WAGOLL: Read Somebody Swallowed Stanley and research in groups - share findings. Draw up a list of questions about plastic pollution and the effect it has on our oceans. Why is it a problem?	Understand why there is plastic pollution and the effect it has on our oceans.	
Step 4 Week 4	READING: Somebody Swallowed Stanley - VIBES WRITING: Record information about plastic pollution in the ocean. WAGOLL: The water cycle - where does water come from? How does the water cycle? How does the water cycle? How does the water cycle? WRITING: Persuasive language (ocean, sun, evaporation, vapour, wind, condensation, clouds, precipitation, animals) and air (land, ground, water, air and breathe) Does anyone know what any of these words meant? Investigate vocabulary.	To understand where water comes from.	Youtube video of the water cycle

All learning experiences will include a planned writing unit that teaches the skills pupils will need to achieve the written outcome. Pupils will edit and improve their work as well as using the box planning approach. This will include whole class, to adult supported and independent depending on the child. They will use high quality texts to drive the learning and provide high quality WAGOLLs.

This is what is shared with the children at the start of each learning experience. The children then stick this in their book so they have a clear understanding of what they are going to learn.


Learning Experience Overviews

We start each learning experience with an exciting hook to engage the pupils. We also introduce the linked class reader and fill the class library with topic based books.




This is the key information (knowledge or skills) the children will learn.

POLLUTED PLANET



Big Question – Are Humans Working Against Nature?




Big Picture – You will be learning about the importance of oceans and the effect of pollution. You will take a trip to Bosham Harbour to look for signs of pollution in our local area. You will then learn about the different states of matter and use all that you have learnt to write a persuasive letter to a local Member of Parliament.

Hook – Look at a gallery of pictures of pollution – how do they make you feel? Look at the video of the Great Pacific Garbage Patch.

Enquire and Explore

Why are oceans important?

- Locate the world's oceans.
- Find out why oceans are important and what they are used for.
- Predictions using "The Song of a Dolphin Boy."
- Persuasive language - WAGOLL - key features
- Explore key features of persuasive language.
- Write a paragraph (topic, supporting and concluding sentences) about why oceans are important to you and others.



Class Text = Song of a Dolphin Boy by Elizabeth Laird

What impact are humans having on the oceans?

- Investigate pollution in our oceans.
- Go to Bosham Quay to investigate if there is pollution in Bosham harbor.
- Understand the impact of single use plastics on our oceans.
- Paragraphs – WAGOLL – key features
- Use paragraphs to write about pollution in our oceans and in Bosham Harbor and how we can minimize it.

What is the water cycle?

- Where does water come from?
- Understand the difference between solids, liquids and gases.
- Write a paragraph about the water cycle in your own words using scientific vocabulary.
- Investigating how scientific processes can change the state of some materials

What can we do to save our oceans?

- WAGOLL - Reminder of paragraphs and language of a persuasive letter.
- Write, edit and publish a persuasive letter to local MP about pollution.

Authentic outcome – Use persuasive language to write a letter to your local MP about the effect of pollution on nature.

Key Learning	Key Vocabulary
Understand and describe the four stages of the water cycle	<ul style="list-style-type: none"> • Solids • Liquids • Gases • Particles • Change of state • Evaporation • Condensation • Precipitation • Collection • Water cycle
Understand how states of matter change	
Name the key human and physical features of the local area.	

Learning is broken down into clear steps:

- **Step 1** – Why are oceans important?
- **Step 2** - What impact are humans having on the oceans?
- **Step 3** – What is the water cycle?
- **Step 4** - What can we do to save our oceans?

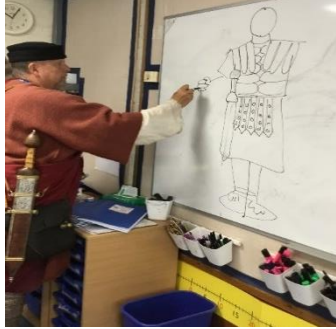
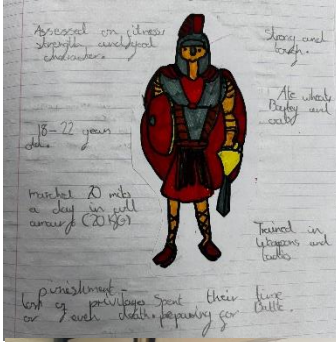
English planning is then added to the learning experience and this is written in green to make it clear and explicit.

These are the key words children will need to understand and use in their work.

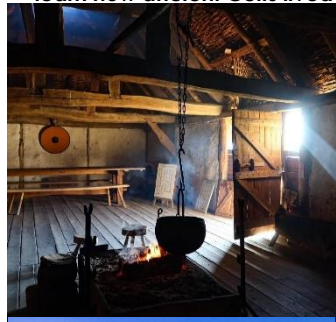
Ruthless Romans

example Learning Experience

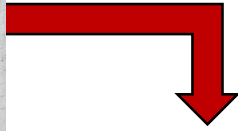
Hook - Slave or Master Day



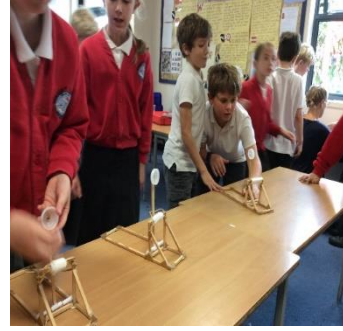
Trip to Butser Ancient Farm to learn how ancient Celts lived



Learn About Ancient Roman Britain and how the Roman invasion impacted us



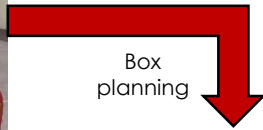
Learn About Roman inventions and siege warfare - create a catapult



Trip to Fishbourne Roman palace



Take part in a Roman battle then write about it in a newspaper form



Box planning



The Roman Times
Reported by Lily Ann

A Britons Worst Nightmare

an hour if they could see the enemy coming towards them they had to fight them back but it was no use - what was going to happen next?

The Romans during the battle
One misty dawn morning the Romans united to the enemy to come into sight. The sun was hidden behind the clouds so it was quite cold especially for the Roman soldiers because they were in shorts. After

The Britons were angry
Soon and make the Britons get into better shape to fight the Roman soldiers. At midday half of the army of the Britons were killed. At about dawn the battle began and the Britons pushed their opponents back they threw the rocks and the catapults. After a few hours the Britons realized they had won the battle.

After their hard work
be a night of their life.

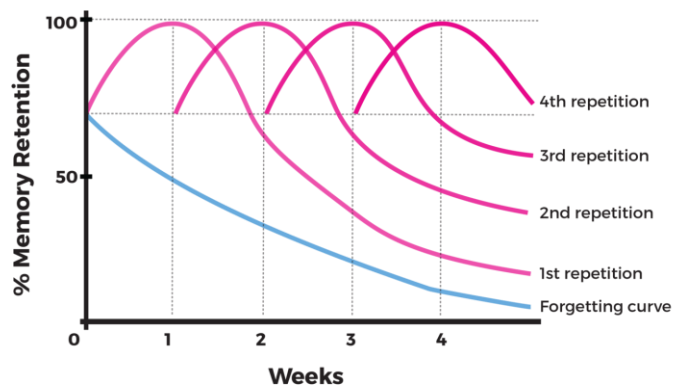
All the brave soldiers
the Britons listened to all the great team - work they do. After their emperor visited giving thanks they had a great feast of their life. When the great banquet finished the Britons played lovely without music. All the Roman soldiers were clashing shields and throwing spears it would

How to Make it Stick


In order for children to retain information they need to be exposed to information on multiple occasions. We have quizzes to recap learning from earlier in the year in order to help our children retain information.

Curve of Forgetting

For newly learned information



Without this repeated exposure to information children will struggle to recall this in their long term memory. This is an approach we use across the curriculum to help children remember information such as times tables in maths.



POLLUTED PLANET

Big Question – Are Humans Working Against Nature?

Big Picture – You will be learning about the importance of oceans and the effect of pollution. You will take a trip to Bosham Harbour to look for signs of pollution in our local area. You will then learn about the different states of matter and use all that you have learnt to write a persuasive letter to a local Member of Parliament.

Hook – Look at a gallery of pictures of pollution – how do they make you feel? Look at the video of the Great Pacific Garbage Patch.

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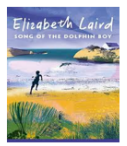


Key Learning

- Understand and describe the four stages of the water cycle
- Understand how states of matter change
- Name the key human and physical features of the local area.

Key Vocabulary

- Solids
- Liquids
- Gases
- Particles
- Change of state
- Evaporation
- Condensation
- Precipitation
- Collection
- Water cycle



class text = Song of a Dolphin Boy by Elisabeth Laird

Here are two examples of quizzes for the Polluted Planet learning experience.

The Water Cycle – Can you describe the 4 stages of the water cycle? The key words will help you.

- Evaporation
- Precipitation
- Heats
- Sun
- Water vapor
- Condensation
- Collection
- Clouds
- Droplets
- Oceans/seas/lakes

States of Matter

Think back to when we did an experiment using vinegar, bicarbonate of soda, a bottle and a balloon.

Can you explain what is happening?

Use the words – solid, liquid and gas.


How do we Assess Learning?






Bosham Writing guidance for planning English coverage

Y4	Genre focus (including LE & purpose)	Vocabulary (including common exception words)	Grammar & Punctuation	Structure & Organisation
Autumn 1	<p>Recount – newspaper report (Ruthless Romans)</p> <p>To inform</p>	<ul style="list-style-type: none"> • Later on ... • Before long... • At that very moment.... • According to... • Eventually... • Despite ... • through although surprise • strength pressure position • learn 	<ul style="list-style-type: none"> - Standard formal English - Fronted adverbials to indicate time and place - Comma after fronted adverbial - Nouns and pronouns used for clarity and cohesion - Past tense verbs - 3rd person (he/she/they) - Expanded noun phrases (the rotten ruthless Romans) - Prepositional phrases (time/place/cause) 	<ul style="list-style-type: none"> • Topic paragraphs (change in Time place Topic perspective) • Headline and • Opening paragraph 5 W's (who, what, when, where, why) • Sequence ideas (events reported chronologically)



Ruthless Romans



Big Picture – You will take part in a Roman battle with Paul Olsen and hopefully live to tell the tale through a newspaper report, as either a ruthless Roman soldier or a terrified British civilian who took part in the battle.

Big Question – Do all duties have to be fulfilled?

Hook – Take part in a Roman workshop.

Enquire & Explore

Step 1 – What were the ancient Romans like?

- Explore a newspaper report – what does it include?
- What do you already know about Romans?
- Where do Romans fit into our timelines?
- Use fronted adverbials to indicate time and place and use commas after fronted adverbial. – write about your day as a slave or master.
- Use nouns and pronouns.

Step 2 – Why did the Romans want/invoke Britain?

- Use past tense verbs – write about why the Romans invaded Britain.
- Opening paragraphs – 5Ws: Where, when, what, who, why? - write about why the Romans invaded Britain.
- Take a trip to Fishbourne Roman Palace.
- What was life like before, during and after the Romans?

Step 3 – What was it like to be an ancient Roman in Britain?

- Research what a traditional Roman shield looked like.
- Becoming a Roman Soldier.
- What are mechanical leavers and how can they help us?
- How were leavers used in Roman catapults?
- Construct a Roman catapult
- Experience a real Roman battle with Paul Olsen.
- Sequence ideas and report events in chronological order using headings.
- Use expanded noun phrases to write from the perspective of the Ruthless Romans and scared British civilians.
- Write in the third person – write your newspaper report.

Authentic Outcome – You will take part in your own Roman battle and live to tell the tale through writing your own newspaper report.

Key Learning	Key Vocabulary
<ul style="list-style-type: none"> • Understand and explain the reasons for Roman invasion and expansion and the impact on Britain. • Understand how people lived during Roman times including homes, food, clothing and entertainment. • Understand how Roman inventions and their influence on modern Britain such as, roads, calendar, buildings. • Locate Italy on a map. • Locate countries in the Roman Empire. • Know that Romans built roads. 	<ul style="list-style-type: none"> Invasion Sword (Gladius) Conquer Italy Rome Celts Pict Warrior Emperor Slave Master Soldier Boudicca Shield Helmet Empire

For each learning experience we have divided up the English [National Curriculum](#) grammar & punctuation, vocabulary and structure & organisation (composition). This is then used to plan the learning experience with the relevant English learning within it.



Science Assessment Grid

	Autumn		Spring		Summer	
	1.1.	1.2.	2.1.	2.2.	3.1.	3.2.
YR	Parts of the body <i>Similarities and differences</i>	Colour, light/ dark	Animals & Habitats - contrast	Materials Plants	Habitats Plants	Mini beasts & their habitats Flooding and sinking The seaside
	The Natural World <ul style="list-style-type: none"> Explore the natural world around them, making observations and drawing pictures of animals and plants. Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class. Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter. 					
Y1	Rats, Toys & Kings Describe the simple physical properties of a variety of everyday materials. Group together everyday materials based on their physical properties.	Wonderful Me Label basic human body parts. Name all of the senses. TAPS Assessment - Modelling the body <ul style="list-style-type: none"> Using their observations and ideas to suggest answers to questions 		Powerful Plants Know the difference between deciduous and evergreen trees. Name the basic structure of plants and trees. TAPS Assessment - Modelling Plant Structure <ul style="list-style-type: none"> Observe and identify 	The Carnival of the Animals Identify and name common animals including fish, amphibians, reptiles, birds and mammals. Name animals that are carnivores, herbivores and omnivores. TAPS Assessment- Animal Classification <ul style="list-style-type: none"> Identifying and classifying Describe and compare the structure of a variety of animals. 	
Y2	Deep in the woods Explain the life cycle of a hedgehog. Compare the life cycle of a human to the life cycle of a hedgehog and understand that offspring grow into adults.	Incredible You Explain why it is important to exercise, eat healthy foods, drink water and be hygienic. Know why eating the right amounts of different types of food is important.	I Spy With My Little Eye Explain why different materials are suitable for different things because of their properties. Explain which material is most suitable to make a bucket and why. TAPs Assessment- Comparative test <ul style="list-style-type: none"> What material would you use to make a boat to carry people crossing the Thames to flee the Great Fire of London? 	The Secret Garden Explain how seeds and bulbs grow into mature plants. Know plants need water, light and a suitable temperature to grow and stay healthy. TAPs Assessment <ul style="list-style-type: none"> Describe what they have found out and use their results to make comparisons: children to order large pictures of their beans, label the key vocabulary and present it to others in their Science 3s. 	Wild & Wonderful Know the difference between things that are living, dead, and things that have never been alive. Name a variety of plants and animals in their habitats, including microhabitats. Create and understand a simple food chain.	

Working scientifically recorded in blue



At Bosham we use the [Teacher Assessment in Primary Science \(TAPS\)](#) resources from the Primary Science Trust to assess pupils. It is based on [Bath Spa University](#) and funded by the Primary Science Teaching Trust (PSTT). TAPS aims to develop support for a valid, reliable and manageable system of primary school science assessment which will have a positive impact on children's learning.

At Bosham we use the **National Curriculum** and **TAPs** (Teacher Assessment in Primary Science) experiments from **Bath Spa University** as well as the National Curriculum to test what our children understand.

This approach allows our pupils to demonstrate practical science skills as well as demonstrating understanding of knowledge or facts.



I Spy With My Little Eye

Explain why different materials are suitable for different things because of their properties.

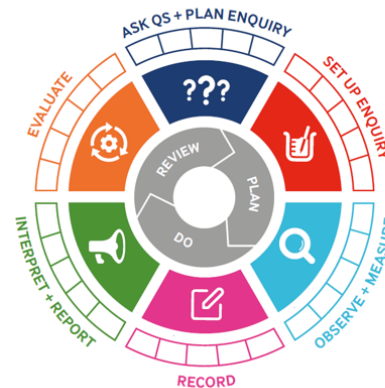
Explain which material is most suitable to make a bucket and why.



TAPs Assessment- Comparative test

- What material would you use to make a boat to carry people crossing the Thames to flee the Great Fire of London?

TAPS Working Scientifically Cycle



- Asking questions**
Asking questions that can be answered using a scientific enquiry.
- Making predictions**
Using prior knowledge to suggest what will happen in an enquiry.
- Setting up tests**
Deciding on the method and equipment to use to carry out an enquiry.
- Observing and measuring**
Using senses and measuring equipment to make observations about the enquiry.
- Recording data**
Using tables, drawings and other means to note observations and measurements.
- Interpreting and communicating results**
Using information from the data to say what you found out.
- Evaluating**
Reflecting on the success of the enquiry approach and identifying further questions for enquiry.

Types of Scientific Enquiry

Comparative / fair testing
Changing one variable to see its effect on another, whilst keeping all others the same.



Research
Using secondary sources of information to answer scientific questions.



Observation over time
Observing changes that occur over a period of time ranging from minutes to months.



Pattern-seeking
Identifying patterns and looking for relationships in enquiries where variables are difficult to control.



Identifying, grouping and classifying
Making observations to name, sort and organise items.



Skill Statements

Asking questions
Asking questions that can be answered using a scientific enquiry.



Making predictions
Using prior knowledge to suggest what will happen in an enquiry.



Setting up tests
Deciding on the method and equipment to use to carry out an enquiry.



Observing and measuring
Using senses and measuring equipment to make observations about the enquiry.



Recording data
Using tables, drawings and other means to note observations and measurements.



Interpreting and communicating results
Using information from the data to say what you found out.



Evaluating
Reflecting on the success of the enquiry approach and identifying further questions for enquiry.



Year 4

- ★ I can ask *relevant* questions about the world.
- ★ I can recognise that questions can be answered in different ways using the different types of Scientific Enquiry.



- ★ I can identify new questions arising from the data
- ★ I can make new predictions based on my results



- ★ I can set up simple practical enquiries, comparative and fair tests
- ★ I can perform these enquiries & tests



- ★ I can make systematic and careful observations
- ★ I can take accurate measurements using standard units and a range of equipment



- ★ I can gather, record, classify and present data in a variety of ways to answer questions
- ★ I can decide how best to record my findings



- ★ I can communicate my findings in a variety of ways.
- ★ I can use scientific evidence from my enquiry to answer questions



- ★ I am beginning to discuss my results in relation to my prediction.
- ★ I am beginning to say what I would change about my investigation and pose further questions.



In **Y4** the **Science National Curriculum** states that children should learn about **States of Matter**.

States of Matter

- Compare and group materials together, according to whether they are solids, liquids or gases.
- Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C).
- Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.

Our subject coverage maps include everything that needs to be covered ([Science National Curriculum](#)).

Bosham Primary School Subject Coverage Map for Science

Milestones for Y3 & Y4	Autumn	Spring	Summer
<p>Work Scientifically This concept involves learning the methodologies of the discipline of science</p> <p>Ask research questions</p> <ul style="list-style-type: none"> Plan up simple, practical enquiries and comparative and fair tests. Make accurate measurements using standard units, using a range of equipment, e.g. thermometers and data loggers. Compare, classify and present data in a variety of ways to help in answering questions. Record findings using simple scientific language, drawings, labelled diagrams, bar charts and tables. Report on findings from enquiries, including and/or without appropriate, abstract or presentation of results and conclusions. Use results to draw simple conclusions and suggest improvements, new questions and predictions for setting up further tests. Identify differences, similarities or convergence across to simple, scientific ideas and processes. Use straightforward scientific evidence to answer questions or to support their findings. 	<p>Light</p> <ul style="list-style-type: none"> recognise that light needs light in order to see things and that dark is the absence of light notice that light is reflected from surfaces recognise that light from the sun can be dangerous and that there are ways to protect their eyes recognise that shadows are formed when the light from a light source is blocked by an opaque object find patterns in the way that the size of shadows changes <p>Assessment: Shadow knowledge</p> <ul style="list-style-type: none"> To understand light reflected so we can see objects To recognise objects can be transparent, translucent or opaque To explain how light can be blocked <p>Animals, including humans</p> <ul style="list-style-type: none"> Identify that animals, including humans, need the light to see and amount of nutrition, and that they cannot make their own food, they get nutrition from what they eat Identify that humans and some other animals have features and muscles for support, protection and movement <p>Assessment: Food & Cells 8/10</p> <ul style="list-style-type: none"> Understand the importance of nutrition Know the parts of the human skeleton Know how muscles help us move 	<p>Water</p> <ul style="list-style-type: none"> compare and group together different states of water on the basis of their appearance and other physical properties describe in simple terms how water is formed from other things that have lived or existed within it recognise that both the sun and water are essential for life on earth and organic matter <p>Assessment: Evidence 8/10</p> <ul style="list-style-type: none"> Describe and name different states of water Explain how clouds form 	<p>Animals and Insects</p> <ul style="list-style-type: none"> Identify and describe the functions of different parts of flowering plants: roots, stems/leaves, seeds and flowers Explain the requirements of plants for life and growth (light, water, nutrients from soil, and room to grow) and how they may vary from plant to plant Investigate the way in which water is transported within plants Explain the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal <p>Assessment: I Can Grow</p> <ul style="list-style-type: none"> Describe the functions of different parts of flowering plants Explain why plants need light Explain the life cycle of flowering plants <p>States and Magnetism</p> <ul style="list-style-type: none"> Compare how things move on different surfaces Notice that some things need contact between 2 objects, but magnets force can act at a distance Observe how magnets attract or repel each other and attract some materials and not others Compare and group together a variety of everyday materials on the basis of whether they are attracted to magnets, and identify some magnetic materials Describe magnets as being a pole Explain whether a magnet will attract or repel each other, depending on which poles are facing <p>Assessment: Forces & Magnetism (Do not show net 10)</p> <ul style="list-style-type: none"> Know which material are attracted to a magnet Explain whether two magnets will attract or repel one another
	<p>States of Matter</p> <ul style="list-style-type: none"> Describe how gases, liquids and solids, according to whether they are solids, liquids or gases Explain that some materials change state when they are heated or cooled Measure or research the temperature at which this happens in degrees Celsius (°C) Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature <p>Assessment: Related Words</p> <ul style="list-style-type: none"> Describe and describe the water cycle 	<p>Big Mings and Hot Habits</p> <ul style="list-style-type: none"> Recognise that living things can be grouped in a variety of ways Explain and use classification keys to help group, identify and name a variety of living things in their local and wider environment Explain that environments can change and that this can sometimes pose dangers to living things <p>Assessment: Useful Words</p> <ul style="list-style-type: none"> Group and identify, describing classification keys Explain how environments can change and that this can sometimes pose dangers to living things 	<p>Insect</p> <ul style="list-style-type: none"> Identify how sounds are made, describing some of them with something vibrating Recognise that vibrations from sounds travel through a medium to the ear

States of Matter

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- Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.







Understand and describe the water cycle

Understand how states of matter change

What the children will be learning taken from the National Curriculum.

What the children will have to show or write about to demonstrate their understanding and be judged to be at ARE.

Y4			<p>Polluted Planet</p> <p>Understand and describe the water cycle</p> <p>Understand how states of matter change</p>	<p>Chew, Foo & You</p> <p>Name the different types of teeth and explain their role in digestion</p> <p>Know how food travels through the body</p> <p>Understand what a food chain is and how it works.</p> <p> TAPS- The Human Digestion Explanation.</p> <p>I can engage with scientific and technological evidence.</p> <p>Powerful Problems</p> <p>Construct a simple circuit and name its components.</p> <p>Understand whether a circuit is complete or incomplete using a switch.</p> <p>Recognise materials that are conductors or insulators and explain their uses.</p> <p> TAPS</p> <ul style="list-style-type: none"> • Conductor or insulator • Use straightforward scientific evidence to answer questions or to support their findings. 	<p>What a Wonderful World</p> <p> Group and identify animals using classification keys.</p> <p>Explain how environments can change and that this can sometimes pose dangers to living things.</p>	<p>Sound</p> <p>Recognise that vibrations from sounds travel through a medium to the ear</p> <p>Find patterns between the volume of a sound and the strength of the vibrations that produced it.</p> <p> TAPS</p> <ul style="list-style-type: none"> • Bring telephonic conclusions • Use results to draw simple conclusions.
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Science Vocabulary Grid

		Autumn		Spring		Summer	
		1.1.	1.2.	2.1.	2.2.	3.1.	3.2.
YR		Special You <ul style="list-style-type: none"> similarities differences environment process season autumn spring summer winter 	Season to Season <ul style="list-style-type: none"> season spring summer autumn winter hibernate frst ice village 	What are Other Places Like? <ul style="list-style-type: none"> polar temperature ice snow Arctic Antarctic habitat iceberg blubber 		What is Africa Like? <ul style="list-style-type: none"> rainforest canopy tropical equator climate vegetation 	
Y1			Rats, Toys & Kings <ul style="list-style-type: none"> materials properties plastic metal wood glass paper variety identity 	Wonderful Me <ul style="list-style-type: none"> body human senses smell touch taste heart sight 		Powerful Plants <ul style="list-style-type: none"> deciduous evergreen branch roots leaves stem trunk 	The Carnival of the Animals <ul style="list-style-type: none"> identify fish amphibians reptiles birds mammals carnivores herbivores omnivores
Y2		Deep in the woods <ul style="list-style-type: none"> animal offspring adl. life cyc bat you old gro 	Incredible You <ul style="list-style-type: none"> healthy food 	I Spy With My Little Eye <ul style="list-style-type: none"> brick rock 		The Secret Garden <ul style="list-style-type: none"> grow growth 	Wild and Wonderful <ul style="list-style-type: none"> living alive
Y3			<ul style="list-style-type: none"> proteins carbohydrates dairy fats oils Shadowy showpiece <ul style="list-style-type: none"> light reflected source shadows dark surface straight lines dangerous transparent translucent 	<ul style="list-style-type: none"> rock erosion soil porous permeability crystal mineral 	<ul style="list-style-type: none"> non-magnetic attract repel materials 	<ul style="list-style-type: none"> seed formation seed dispersal oxygen nutrients absorb transported lifecycle pollination 	
Y4				Polluted Planet <ul style="list-style-type: none"> solids liquids gases melting boiling particles change of state frozen evaporation condensation precipitation collection water cycle 	Chew, Poo & You <ul style="list-style-type: none"> digestion molar, incisors & canine teeth intestine colon oesophagus anus rectum nutrients absorbs saliva enzymes photosynthesis consumer decomposer producer (primary / secondary) predators prey Powerful Problems <ul style="list-style-type: none"> electricity circuit (complete/broken) battery cell wire bulb switch 	What a Wonderful World <ul style="list-style-type: none"> biomes climate ecosystem habitat adaptation biodiversity 	Sound <ul style="list-style-type: none"> volume vibrations vibrate pattern sound wave

We also carefully select vocabulary that pupils need to understand in order to be judged as ARE in Science for each unit.



States of Matter

- Solids
- Liquids
- Gases
- Particles
- Change of state
- Evaporation
- Condensation
- Precipitation
- Collection
- Water cycle

