

WEST HOVE INFANT SCHOOL A family of friends



Science at West Hove Infants

Science is an integral part of our provision and ethos. It is firmly placed within the context of our aims, visions and values and encompasses our curriculum drivers of standards, engagement, enquiry and diversity.

Science is used to develop the children's creativity, curiosity and awareness of the world around them. We celebrate their achievements throughout the school environment. Children are encouraged to ask questions, predict outcomes and test their ideas practically. We look at the work of scientists and important discoveries from a variety of different cultures, both modern and historical.



Our curriculum aims to give children the ability and skills to produce creative work, explore their own ideas and express themselves imaginatively.

Curriculum

Creativity, curiosity, awareness...







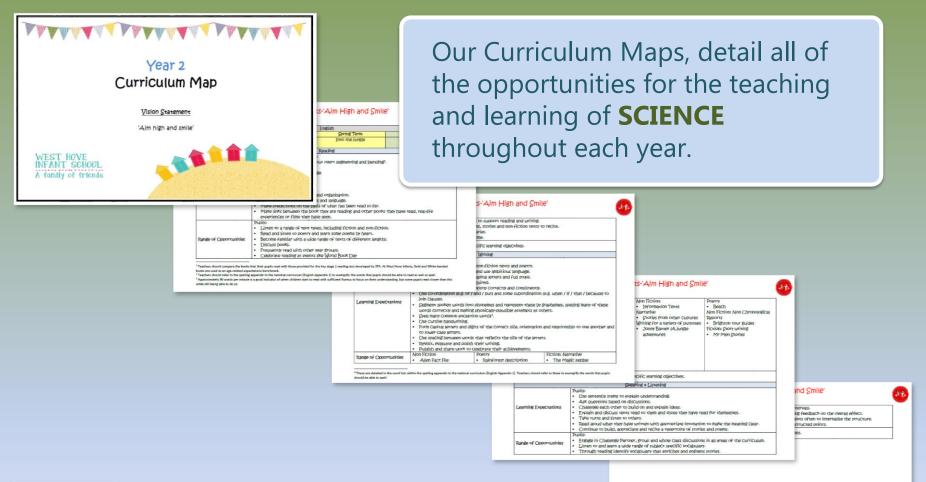
Curriculum

Creativity, curiosity, awareness..

Please go to:
http://www.westhoveinf
ants.co.uk/ourcurriculum/schemesof-work/
to see our Science
curriculum planning



Curriculum Overview





Spiritual, moral, social and cultural development...

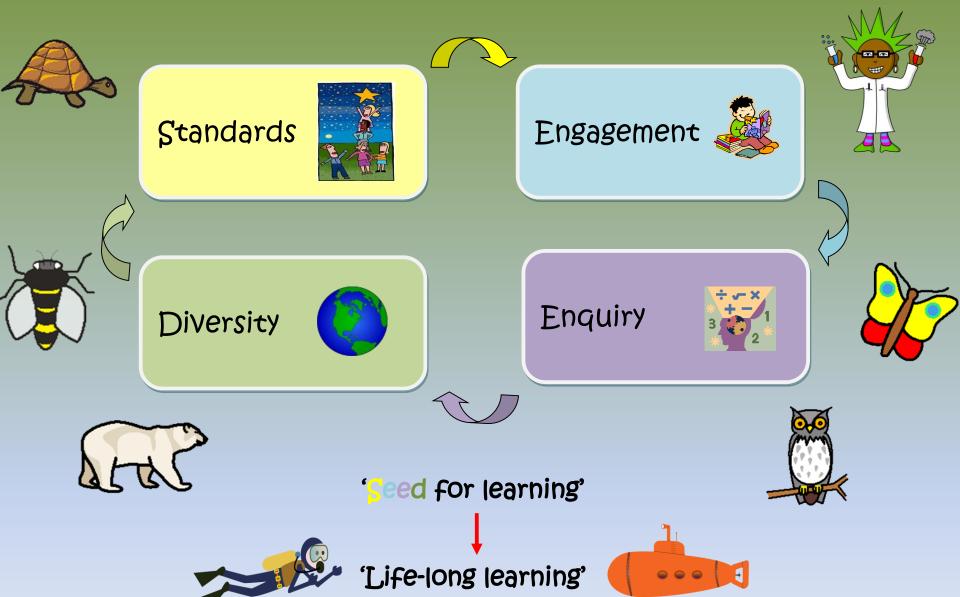
Subject	We promote Spiritual development	We promote <i>moral</i> development	We promote social development	We promote <i>cultural</i> development
Science	By demonstrating openness to the faCt that some answers Cannot be provided by \$CienCe. By Creating opportunities for pupils to ask questions about how living things rely on and Contribute to their environment. By opportunities such as our Visiting Planetarium which raises questions about the size of the universe and how it might have been formed.	By offering pupils the Chance to Consider the wonder of the natural world and the inventions which have made the world a better place. By Considering that not all developments have been good because they have caused harm to the environment and to people. By encouraging pupils to speculate about how science can be used both for good and not so good.	By using opportunities during Science lessons to explain how to keep other people safe and how they might proteCt a younger or Vulnerable young person. By exploring the soCial dimension of scientific adVances e.g. enVironmental Concerns, medical adVances, energy processes in age appropriate language.	By asking questions about the ways in which scientific discoveries from around the world have affected our lives. (For example, there is a rich heritage of scientific discoveries from Hindu, Egyptian and Muslim traditions.)

Please look at our website for further information

https://www.westhoveinfants.co.uk/Science



Curriculum Drivers: S.E.E.D.



Consistency of expectations across both sites: planning, moderation. High quality resources, modelling and displays

Having high expectations of all pupils. Thorough assessments in place and a dynamic approach to interventions to ensure all pupils reach their potential: Pupil progress, achievement team & Spotlight meetings

Teaching children explicitly the importance of having a goal and working hard to achieve it. Target setting, PSHE Curriculum and assemblies, Special Mention & Star of the Week

Standards: Achieved by...



Developing a positive attitude to the process of learning: at to [Learning Characteristics, Growth Mindset, Learning Model, Learning Ladders A

Teaching children about aspirational people: Nelson Mandela, Mary Anning, Neil Armstrong



Challenge for all Children at all levels in all subjects: marking and feedback, mastery approach, self/peer assessment, polishing pens, Challenge partners, 'Deep Dive' challenges



Standards















The standard of science, both knowledge based and enquiry based is high at West Hove Infants. We celebrate the children's achievements and successes and allow them time to think critically and make changes to their own





Standards

We celebrate children's achievements and successes throughout our school environment.

High quality displays in classrooms and around the school environment celebrate and reflect cultural diversity.









'Stunning Starts', 'Fabulous Finishes'

Local environment: walks, beach visit, Wish park

Visits and Visitors: e.g. Zoolab, Space Dome

Theme days:

Superhero Day, Art Day, French

Challenge for all: Challenge Partners, Professor Prove it, 'Deep Dive' challenges

> Learning outside. Active Learning. Sports & PE

(Jsing children's ideas as starting points. Wonderful World of Me. Home Learning **Projects**





week Use of 'Learning Model'. Brain breaks. Talk for

Writing

🚜 First hand 🐌 experiences. Investigations. Problem Solving. Mastery & Challenge. Cross Curricular links atas









active learning



first hand experiences

visits and visitors

Engagement

Children are encouraged to work independently and collaboratively in groups





Creative and Critical thinking: Growth Mindset, Learning Characters

Expressing opinions. Listening to and respecting other's opinions

Investigations &

Problem solving.

Exploring maths

and science

concepts: Lego

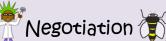
club, Science





Team work:

Discussion and



Reasoning and

Reflecting Justifying:

'Professor Prove It'



Questions which promote exploration and discussion of ideas - no right or wrong answers

Enquiry: Developed through:



Challenge Partners



Generating own



Mastery - Depth of Understanding



Learning through Play:

Active Learning,

Exploring, Innovating,

Creating



Scientific knowledge and conceptual understanding

The national curriculum for science states:

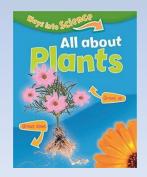
'The programmes of study describe a sequence of knowledge and concepts. While it is important that pupils make progress, it is also vitally important that they develop secure understanding of each key block of knowledge and concepts in order to progress to the next stage.'

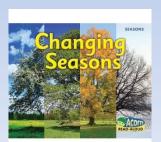
To develop and consolidate this knowledge and understanding, we have high quality texts available in classrooms which cover a range of objectives from the national curriculum.

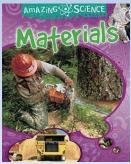
These texts are used both in independent and adult led learning and can again lead to more questions about important scientific discoveries in our world.











Working scientifically

The national curriculum for science states:

'Working scientifically' specifies the understanding of the nature, processes and methods of science. Working scientifically might be embedded within the content of biology, chemistry and physics, focusing on the key features of scientific enquiry, so that pupils learn to use a variety of approaches to answer relevant scientific questions. These types of scientific enquiry should include: observing over time; pattern seeking; identifying, classifying and grouping; comparative and fair testing (controlled investigations); and researching using secondary sources.'





Festivals: Eid, Diwali,

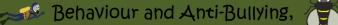
Christmas, Chinese

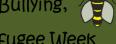


New Year



Respect: Challenging stereotypes,





Restorative Justice, Refugee Week

Local community:

Children's

Parade, Let's

Dance



Diversity of

language: Sharing

home languages,

French



Diversity:
Through
Celebration and
awareness of...

British
Values:
preparation
for life in
modern
Britain

A PSHCE curriculum that explores the diversity of gender representation, race, religion and family units in our community

Awareness of

others:



Displays,

Wonderful



World of Me!

Knowledge of other

cultures and

communities both in

school and further

afield: Around the

World, Rainforests,

French Week, people

from different cultures/

countries







From the start of Reception, all children are exposed to a wide range of scientific discoveries from different times and cultures. They will get to know some scientist's names, who have been influential in how we see science as a subject today. We look at work from a variety of countries and cultures and aim to instil knowledge, curiosity and enjoyment.







CULTURAL DIVERSITY

Gardening Club..

Gardening Club is a very popular club which is run by dedicated members of staff and has strong links with the National Curriculum. It runs on a weekly basis and is open to children in Y1 and Y2.





Community Involvement...

We have links with
Brighton and Hove
Museum, the Booth
Museum and local nature
reserves.

We invite local scientists into school to talk to the children about their work. We also aim to instil a sense of awe and wonder by holding interactive science workshops.









It encourages them to build their knowledge about the universe around them whilst being a perfect platform to feed their curiosity and questioning skills.





How can I support my child at home?

- Try to find time to make full use of the opportunities for 'science talk' that arise out of everyday domestic contexts.
- Encourage your child to keep records in scrapbooks or notebooks of wildlife in the garden, and to make comparisons between different species of birds, for example.
- Play 'What if?' in a scientific context. Talk to your child about questions such as 'What if the sun never shone?'
- Look for scientific principles in picture books, stories and poems and prompt discussion of them.
- Look at the British Science Association's website and its <u>CREST Star</u> <u>CREST Star Investigators</u> activities aimed at 5-12 years old children. old children.
 - http://www.britishscienceassociation.org/web/ccaf/CRESTStarInvestigators/TStarInvestigators/index.htm

How can I support my child at home?

Local opportunities which may be of interest to your child:

- Herstmonceux Science Museum (and Observatory)
- Booth Natural History Museum, Dyke Road.
- Arundel Wildfowl Trust
- •Sussex Wildlife Trust at Woodmancote near Henfield.
- Creative Science, Art & Technology Workshops run by The Curiosity Hub a leading provider of STEAM (Science, Technology, Engineering, Arts & Maths) enrichment in Sussex, UK.

London:

- Science Museum, Exhibition Rd, SW7 2DD
- Natural History Museum



Useful websites and publications...

www.nhm.ac.uk/education The Natural History Museum

www.sciencemuseum.org.uk The Science Museum, London

www.brainpop.com animated educational site for children

www.sciencekids.co.nz Fun Science games for kids! (Includes fun experiment ideas too!)

www.crickweb.co.uk Free interactive Science games.
http://www.britishscienceassociation.org/
/web/ccaf/CRESTStarInvestigators/index.htm Look at the British Science Association's website and its CREST Star Investigators activities aimed at 5-12 years old children.

Do also have a look at our 'My Little Book of Fun Things to Do'. These have been sent home but are also available on our

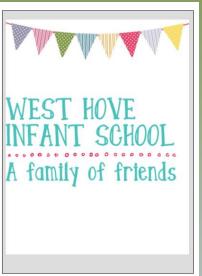




Please
Insert child's
photo
Or
drawing of
themselves
here

Look at the fun things to do in your year group and see how many activities you can tick and date to say you have done!

We hope that you have fun completing you list ☺





Well done for completing all your fun activities!

Please let us know below any more fun things that you like to do...

Year R			Ar	
Activity		1	Date	
Make mud pies				
Stroke a small animal	1			
Blow bubbles				
Roll down hills	76			
Splash in puddles	11			
Dance like no one is watching	A) West			
Make a den	A			
Pick fruit and eat it				
Play in the snow	XXX			
Visit a farm				
Plant a bulb and watch it grow	0			
Go on a crunchy leaf walk				
Fly a kite	*			
Post a letter				

Year I			14	
Activity			Date	
Build a sand castle	1			
Make some biscuits & eat whilst warm				
Make a puppet	e e			
Put on a puppet show				
Borrow a book from the library				
Go on a trip to the seaside				
Carve a pumpkin	6 2			
Make a daisy chain	41,90			
Dance like no one is watching	No.			
Go on a winter walk	Maril			
Look up at the stars on a clear night				
Walk barefoot in the sand				
Collect shells and pebbles to decorate a plant pot				
Keep a collection of some sort	6			

Year 2			
Activity			Date
Play a musical instrument	h pri		
Go on a picnic	() () () () () () () () () ()		
Plant a seed and eat what grows			
Visit a museum	AL DE LES		
See live music	NW		
Perform a dance	A7 (10%)		
Collect snails and race them (put them back once you've finished)	3		
Have a water fight	22		
Play in the snow	XXX		
Join an extra-curricular club	MINES CLUM		
See a butterfly hatch	-		
Talk to an old person			
Make your own ice lolly and eat it			
Take a selfie	R.		