All Saints' CE Primary School

PSQM 2021-22









To identify All Saints' PSQM journey and development of Science, this presentation has been colour coded into 3 main headings; BACKGROUND/PRE-PSQM, ACTION taken and IMPACT.

Science Lead: Natalie McManus



SL A. There is a clear vision for science, created and implemented by teachers and children, through principles for teaching and learning.

Despite a clear vision & principles had been created by SL with collaboration with teachers and pupils it was not vet embedded in teaching and learning and not yet shared across the school community.



We revisited these in a staff meeting and teachers started to embed them in their teaching and attitude towards science. I also displayed them in a communal space to raise the profile of science in school.



PRINCIPLES

Our principles in science were developed by the teachers and pupils and aim to provide the foundation for excellent eaching of science

INVOLVED

Science is FUN and children are fully involved and engaged in their learning. Children are active learners and pursue their learning out of school; they are able to draw on a range of experiences. eaching is meaningful and

memorable.

VISION At All Saints' we believe our curriculum inspires children to have a life-long love of science Whatever their background children are included and are able to make progress from their starting point and flourish. We want children to be involved by engaging their natural curiosity of the world around them and secure scientific knowledge and

EQUIPPED

Children are secure in using science equipment and resources. Children begin to choose appropriate resources to measure and record investigations. Cross curricular links are made with other subjects e.g. Maths. Teachers are confident in heir subject knowledge and

A child friendly version (We are Scientists) was

governors These were also displayed in the

children's science books and referred to in

launched to the children, parents and

INTENT

INVESTIGATE

Children build on their scientific knowledge and understanding through practical investigations. Children are 'hands on' and the learning has relevant meaning/ real life context.

LANGUAGE

Children are able to use scientific vocabulary through speaking and recording. Children are able to hypothesise, explain and draw conclusions. Children are able to use language to demonstrate their understanding.

BIG IDEAS

underpinned by our BIG IDEAS - Language, Britain, People, Faith, Migration and Creativity. These are woven (where appropriate) into our vision and principles of science. The 'Big Ideas' are the hooks the children hang their learning and the building blocks for long.



WE ARE SCIENTISTS

INVESTIGATE

We ask questions and investigate our ideas using different types of enquiry. We can sort, group and classify things based on their similarities. We can make observations and seek patterns in science. We can construct fair and comparative tests when investigating a question. We are 'hands on' and we build on our scientific knowledge and understanding.

In each science unit we build on our scientific knowledge through our knowledge gems centered around; INVESTIGATE, RESEARCH & RECORD. The knowledge gems are the key things we learn and try to remember. We apply our learning using our working scientifically skills through practical investigations.

RECORD

We use our skills from other subjects to help us record our learning in science. We use scientific vocabulary for speaking and writing our ideas. We take measurements and record these using graphs and charts. Through our investigations we can use a range of science equipment and resources.





lessons.

During science week, the principles of

Parent Voice:

INSPIRED

wonder in science in lessons

visitors coming into school and

going on school trips etc.

Children are also inspired by

home learning projects and

events such as Science Week

Children will also learn about

inspirational people in science

and science in Britain and in

ENQUIRE

Children are able to ask

questions that lead to a

scientific enquiry e.g. Do all

birds migrate?. Children

are given the opportunity

to explore, be creative and

try things out. Children

experience a range of

scientific enquiry.

science go above and beyond. We enjoy learning at home and children are able to extend their learning in their own way. The tasks are often topical and really engaging. Year 5 parent.



Vision and

children.

principles are

displayed in a

communal space to

remind staff and

RESEARCH

We learn about the world around us and we use scientific language to explain our learning. We are able to hypothesise, explain and draw conclusions from the knowledge we have acquired. We learn about scientists of today and famous historical ones.

Also displayed in

children's books and referred to in lessons.

Pupil Voice:

We are scientists reminds us what we need to do in our lessons and the things we cover in a unit of work.





SL A. There is a clear vision for science, created and implemented by teachers and children, through principles for teaching and learning.

Our vision and principles in science are embedded and in action across the school.

INVOLVED

Science is FUN and children are fully involved and engaged in their learning. Children are active learners and pursue their learning out of school; they are able to draw on a range of experiences. Teaching is meaningful and memorable.

LANGUAGE

Children are able to use scientific vocabulary through speaking and recording. Children are able to hypothesise, explain and draw conclusions. Children are able to use language to demonstrate their understanding.

ENQUIRE

Children are able to ask questions that lead to a scientific enquiry e.g. Do all birds migrate?. Children are given the opportunity to explore, be **creative** and try things out. Children experience a range of scientific enquiry.



My Key Vocabulary

Year 1 children enjoyed having a tortoise in class as part of their topic on animals.

Year 2 vocabulary list on healthy eating.

ritamins and

Year 4 questions about light.



Year 5 comparative testing enquiry about how craters

are formed on the moon.

INVESTIGATE

Children build on their scientific knowledge and understanding through practical investigations. Children are 'hands on' and the learning has relevant meaning/ real life context.

EQUIPPED

Children are secure in using science equipment and resources. Children begin to choose appropriate resources to measure and record investigations. Cross curricular links are made with other subjects e.g. Maths. Teachers are confident in their subject knowledge and enjoy teaching.

INSPIRED

Children experience awe and wonder in science in lessons, visitors coming into school and going on school trips etc. Children are also inspired by home learning projects and events such as Science Week. Children will also learn about inspirational people in science and science in Britain and in the wider world.

Year 6 - investigating through pattern seeking whether the shape of a bird's beak affects how much or the type of food it will eat as part of their unit on evolution and adaptation.







EYFS role play area based on minibeasts. Cross curricular links made with English (making a list).

> Year 3 doing a science trail at the National Horse Racing Museum. This was shared on our social media page for parents.



SL B. Strategic support for subject leadership is provided and includes: focussed CPD for subject leader, regular release time and resources to facilitate development in science.

The main barrier to SLB was negotiating subject leadership time due to Covid and staff shortages; however, this has been easier in the second part of the spring term.



Development of science was included in the school development plan. Leadership time was arranged to enable science development to take place.

9 Science	Science drivers for Big ideas curriculum are embedded. Primary Science quality mark awarded	Quality control science knowledge organisers agreed format. Attend sessions fo PSQM and complete tasks required.

submission. Quality mark awarded.

Attend

sessions for

PSOM and

complete

required.

be used in anv marketing/website

Primary Science Capital teaching approach

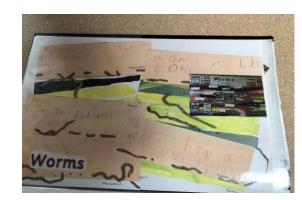
Quality mark can Cover for

Quality mark assessors

NM complete by June 2022

Science lead has sessions, led staff meeting, monitored Science books with wider leaders.

I have spent time in EYFS to improve my subject knowledge in Early Years and to understand what continuous provision looks like in EYFS.





I have attended all of the PSQM sessions and done wider reading to improve my subject knowledge.



All Saints' CE Primary School

Identify and describe the functions of

leaves and

-Explore the

plants for life and

growth (air, light.

water, nutrients

from soil, and

room to grow)

from plant to

. animals in their

microhabitats

things and their

(Y2 - Living

including

and how they va

- Investigate the

transported within

- Explore the part

that flowers play in the life cycle of

way in which

water is

SCIENCE - PROGRESSION IN KNOWLEDGE



d a magnetic of familiary								
TOPIC	EYFS	YEAR 1	YEAR 2					
Plants	Living things & their habitats: -Draw information from a simple mapExplore the natural world around themDescribe what they see, hear and feel whilst outsideRecognise some environments that are different to the one in	-Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees, -Identify and describe the basic structure of a variety of common flowering plants, including trees.	- Observe and describe how seeds and bulb grow into matu plants Find out and describe how plants need water, light and suitable temperature to grow and stay healthy. Identify and name a variety plants and					

which they live.

-Understand the

seasons on the

natural world

around them.

effect of

changing

YEAR 4 ecognise that different parts o rina thinas can flowering plants be grouped in a roots stem/trunk variety of ways. Explore and use eys to help requirements of

roup, identif

ariety of living

an change and

langers to living

hinas in their

nd name a

Describe the lit process of reproduction in some plants and

-Describe how living things ar classified into broad groups according to observable characteristics and based on similarities and including micro organisms plant and animals. -Give reasons for classifying plants based on specifi

characteristics.

I am more confident as SL and I now have a good knowledge of science from EYFS to Year 6. I am now also able to recognise and talk about how science is implemented in EYFS. It has also supported me in understanding progression and providing progression documents for the school. This enables me to have a better view on how to develop science across the school and how to support teachers and teaching assistants. I also have a range of 'go to places/resources' to support me as a leader and for teaching and learning. The quality of teaching across the school has improved and I know what to look for when monitoring.

SL C. There is a monitoring cycle, including pupil voice, that informs actions taken and the development of science.

We had a monitoring system in place but it wasn't as effective mainly due to recognition of the importance of science, frequency and subject knowledge.



I conducted a book scrutiny with the HT and Chair of governors to base monitoring over the year. I am now monitoring science (looking in books and displays, data check, planning, talking to the children about science etc.) termly instead of annually picking up on the actions addressed from the first scrutiny. I am also doing regular check ins with teachers and teaching assistants.

I more confident and I have a better understanding how to monitor science across the school. Now it is more regular, I can see how well initiatives are working and what we still need to do which then feeds into more CPD or discussions with staff. Science is moving forward more effectively and there is a continuous monitoring process in place.

Subject Leader's Book Scrutiny

All Saints' CE Primary School, Newmarket



Carried out by- Barbara Rodell (HT) Anna O'Hare (History lead), Rachel Wood (Chair of governors), Natalie McManus (Science Lead)

Subject - Science

Date - 25.11.2021

Focus/ questions to be answered from previous book scrutiny – consistency across the school and quality of work check

Year Groups	Is marking generally in line with policy? Is there evidence of self / peer marking?	Is there evidence of learning in relation to learning intentions?	ATION Is the quality of presentation /standards of achievement in line with year group expectations ?	COVERAGE Is there evidence of a wide range of learning experiences?	ACHIEVEMENT / PROGRESS Is there evidence of progression and differentiation?	FEEDBACK Are children given next steps in their learning through marking?	ADDITIONAL COMMENTS/ ACTIONS
Reception	Yes	Yes	Yes Excellent use of floor book to capture the children's learning.	Wide coverage of learning Examples; Pattern seeking Exploring the outdoors Seasons Our bodies brushing teeth Memory boxes Light Mixing colours	Evidence of progression of work. It's harder to see differentiation using the floor book but evident in the children's work and on Tapestry.	Children are given verbal feedback.	The floor book captures the children's learning and experiences in EYFS. It shows many aspects of the Big Ideas – e.g. language, people, creativity, faith. Action: To have a central login for Tapestry so that it can be accessed without disrupting the class.
Year 1 and humans guillans - d the daddy lion s	Yes	Yes	Yes	Coverage of animal unit No evidence of working scientifically No evidence of farm trip	Clear differentiation and progress throughout a unit of work. Clearly shows whether a child was working	Children are given verbal feedback.	Action: Create opportunities of working scientifically and science enquiry.

WHAT HAVE I FOUND OUT? – SPRING UPDATE

SUBJECT: SCIENCE

Areas for development from previous scrutiny Non-negotiables

- Enquiry wheel and tick off when completed the
- Every science unit includes some sort of enquiry and working scientifically.
- Knowledge organsier or key vocab displayed in
- Red dot & Green dot assessment statements for SK & WS. Improve the way red dot is recorded as discussed at a staff meeting using a KWL grid or equivalent and using EEE or talk/exploration boxes at the start of a unit of work.
- Work follows the unit of work guidance (slides from staff meeting sent out previously) to ensure good coverage of both skills and knowledge.
- Evidence of children asking questions.
 Ensure books are colour coded with book

Additional Notes & Actions

- Please use less flaps in books sometimes it's really tricky to follow the learning.
 Ensure learning equates to 2 hours of science a
- week (this could be blocked/weekly/combination best practice is weekly lessons).

 Consider ways to include 'Big ideas' which are
- Consider ways to include 'Big ideas' which are evident in the children's work – <u>e.g.</u> meet the scientist.
- Think about cross curricular writing and creatively ways children can present their work.
 Use PLAN assessment for guidance on coverage and attainment of work for each year aroun.

DATE: MARCH 2021

- Strengths across the school and actions addressed:
- Non-negotiables are being addressed across the school.
- Reduced Red Dot task has enabled more time for EEE and talk boxes.
- More evidence of different enquiry types being used and symbols are being taught to the children.
- Vocabulary and sentence stems are being used across the school.
- Children are using <u>Explorify</u> and Scientist Like Me resources
- Range of extra-curricular activities across the school to promote science capital.

Areas for development:

- Introduce knowledge gems in science
- Ensure children are using different ways to record.
- 3. Trial TAPS assessment





Monitoring in action: Year 2 children are asking more questions.

Monitoring in action: Taps assessments being implemented.

We flew our mice as far as we could and recorded the results.



Pupil voice has also improved:

My learning in science has improved by doing more practical things, my teacher helps me and I use resources in my book.

T A. There is provision and signposting of relevant internal or external professional development and support with which staff engage.

The main barriers to TA were, CPD opportunities were undertaken by the SL and not shared with other teachers. Also, there was no provision for CPD for teaching assistants.

1 child with speech and language

making the his aeroplanes more

Science in my pocket being used for a Year

difficulties (SEND). He experimented with

aerodynamic and the colour choices where

used to add additional practise for the



Regular CPD in science was timetabled into staff meetings and all teachers were signposted to any external training opportunities. All teachers and HT received science assessment training with Claire Seeley.



KS1 & a KS2 teaching assistant attended CPD based on 'Science in my Pocket'.

I also supported teachers on an individual basis with specific aspects of science e.g. supporting a supply teacher when covering science.

Teacher subject knowledge and confidence improved which fed into improved quality of teaching. Teachers were able to move children's learning forward and use higher level questioning to draw out the children's understanding during observations.

Year 2 teacher reflection after assessment training; the training was really useful and the TAPS resources are a great way to assess children's working scientifically skills which we weren't doing before.

Feedback from Y5 lesson observation: The teacher used high level questioning to draw out children's knowledge about forces.

Year 1 teaching assistant reflection after the training (science in my pocket): This is the best training I have ever been on and it was very useful and practical. I thoroughly enjoyed it and found it an excellent resource to use with the children.

Ofsted and Assessment

Implementation

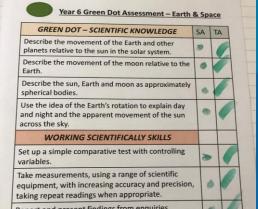
- Teachers have expert knowledge of the subjects that they teach. If they do not, they are supported to address gaps in their knowledge so that pupils are not disadvantaged by ineffective teaching.
- Teachers check pupils' understanding effectively, and identify and correct misunderstandings.
- Teachers ensure that pupils embed key concepts in their long-term memory and apply them fluently.
- Teachers use assessment to check pupils' understanding in order to inform teaching, and to help pupils embed and use knowledge fluently and develop their understanding, and not simply memorize disconnected facts.

Impact

 the progress that pupils are making in terms of knowing more, remembering more and beir able to do more

why& how?

After Claire Seeley's assessment training, teachers started to assess children's knowledge and skills which is recorded in various ways.



Year 6 example of editing red and green dot task which were less meaningful before. Now we are using TAPS and other resources we don't need children to complete a big written task a the end of a unit.

including conclusions.



T B. Teachers are supported to use a range of effective strategies for teaching science which challenge and support the learning needs of all children.

The resources teachers not high quality. There was also limited evidence of how working scientifically was being taught. Our language oracy and acquisition are poor across the school due to a high number EAL pupils with no English and many arrive with little previous schooling despite being in KS2. We also have a range of complex SEND needs.

Limited the use of 'Twinkl' as a learning resource and I made a flow diagram for teachers to support what a unit of work should include. I also gave teachers the PLAN examples of work to support planning. I directed teachers to Hamilton. STEM, PSTT etc.

Science Unit of Work This work forms RED DOT piece - can be idea or real life which will give opportunity for them to show their recorded through observation and a simple scenario for What do I know about a particular topic page existing knowledge and/or scientific skills. KS2 will follow Explore, Engage & Extend (EEE) which is completed after the EEE. Traffic light grids - teacher and pupil if appropriate. WORKING SCIENTIFICALLY & KS1 - use a question to Children write their own KEY VOCABULARY vestigate (modelled/quided Focus on a particula QUESTIONS. KS1 - teaching KS2 - sort questions into children to think of a question types of enquiry and quide to investigation i.e. - should be able to come investigate a question. measuring, using with their own equipment etc. Over INVESTIGATION the year making sure KS2- planning or part plans what knowledge the children nee to know in order to enquire. KS1 aspects of investigation GREEN DOT - Use a traffic light system to show STICKABILITY TASK - term or 1/2 standard (use the PLAN assessment to support term after the unit has been making a judgement). Depending on the unit of taught. Explorify could support work children may final piece of work that task - quick recap not a whole showcases their learning (this could be a

This has improved the consistency of teaching and learning across the school. Using the PLAN documents teachers were more aware of what a secure child's unit of work looked like and could plan more effectively. It also ensured that every unit included some type of enquiry.

Children are given the opportunity to practise

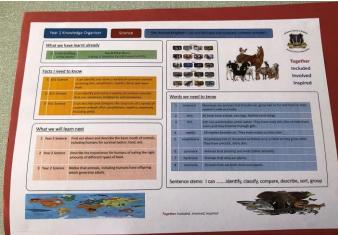
their oracy skills using Explorify and are

encouraged to use sentence stems when

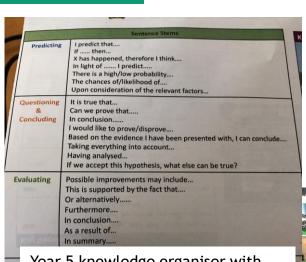
The main area of development was focussed around Improving children's use of scientific language across the school.

Having key knowledge, vocabulary with definitions and sentence stems gave children a resource to support their writing and explanations. Key vocabulary is taught at the beginning of a unit

and revisited in lessons.



Year 1 knowledge organiser with key words and definitions.



lessons.

Year 5 knowledge organiser with sentence stems.



EYFS displayed language around the classroom

and recorded vocabulary as part of their

Y3 using their knowledge about plants to explain their ideas for an Explorify activity.

explaining their ideas.



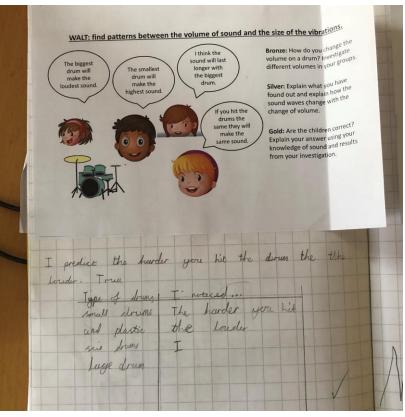
WALT: discuss a scientific question using What is inside flowers? three photos. If you get stuck, think about appearance - what they do - where they might be bell Sower have they have different 5 petals, they all combinations of of

T B. Teachers are supported to use a range of effective strategies for teaching science which challenge and support the learning needs of all children.

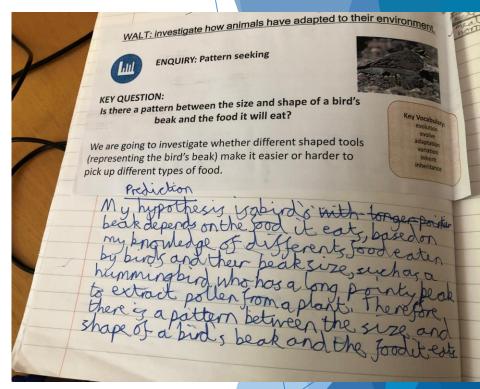
Evidence of children using the sentence stems and vocabulary is also evident in their writing and use of language.



EYFS using talk boxes to support the children's learning but also for teacher assessment.



Year 4 unit on sound and using concept cartoons to find patterns in volume.



Year 6 using their hypothesis using their scientific knowledge and understanding to support their prediction.

You can also identify teachers are using a range of resources to support the children's learning instead of using ready made resources or when they are used they are adapted appropriately.

T C. Resources are audited annually, well-organised and accessible, so that children can regularly and safely use appropriate practical and digital resources, information texts and the outdoor environment.

Science resources were already well resourced and organised but not all resources were being used e.g. data loggers & plug-in microscopes due to ICT issues. Staff wasn't always aware of the resources we had and there was limited evidence of learning outdoors.

I also introduced 'Playground Science' across the school for children to use at playtimes and trained MDSAs how to support the children.

KS1 using playground science.



ICT issues were overcome with data logging apps added on the class ipads and software for the microscopes was installed on teachers' laptops.

Highlighting new & existing science resources during a staff meeting reminded teachers of what we had and where to access them. This rencouraged teachers to use the resources and adding data logging apps and the correct software enabled children to use ICT and measure and record more effectively in science. This also links back with our principles in science of being 'hands on'.

Year 1 using the light box for finding out the properties of materials.

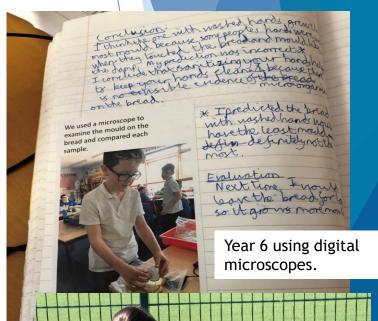


Year 3 & Year 4 using decibel meter to measure the sound.

WALT: recognise sounds get fainter as the distance of the sound source increases

Sound experiment:
We measured the sound at difference distances (1m, 2m, 3m, 4m and 5m using a sound meter which measure in decibels.

Y6 children were able to use the plug-in microscopes to support and extend their learning about microorganisms. Children thoroughly enjoyed using the microscopes and were naturally curious about what they could see.



Year 2 using the tablets to take photographs of plants they found in the school grounds.

Playground science has been a huge success at All Saints' across the whole school. Children have really enjoyed taking the bags outside and children were actively talking and engaging in science which also fed into developing our scientific language.

LA. Children are taught to use different enquiry types to answer scientific questions about the world around them, through the use of scientific enquiry skills.

There was limited evidence of children using a range of enquiry types and developing their enquiry skills across the school. Children didn't know there are different ways to answer a scientific auestion.

I conducted teacher training focussed on working scientifically and introduced teachers to the 'Ogden Trust' resources.

Year 5 investigation about how craters are formed on the moon - using comparative testing with the symbols being used. Earth & Space was also linked to their Tudor topic. Children also have work banks to support their writing.

create the deepest crater

Listest 2ndtest moth dooth furth dec I am going be se this vie of the ball broke is disperd because I think it will have the most varied result. The biggest marble made the indest an despest crater. The smallest marble made the least u I predict that the largest ball inflores the indest crater but the smallest on I conclude that the larger the ball the little spoter. This work for depth and in

The biggest difference in my resultings

Introduced an enquiry wheel with symbols which is displayed in the children's books, used the symbols in lessons and on a science display.

Year 1 observing plants and how they grow.



Year 1 children being 'hands on' and using real plants which also feeds back into our principles.

Different types of enquiry and the development of using enquiry skills has really improved across the school. Children are recognising the symbols and teachers are planning and delivering higher quality enquiry lessons. Teachers are also incorporating word banks to support children's language. Working scientifically skills are actively being taught and the quality of children's drawing with explanations improved.

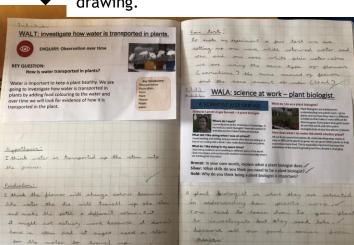


Enquiry wheel being

used across the

school.

Evidence of children drawing to explain and using their working scientifically skills. Year 5 explaining shadows and earth rotation through drawing.



Year 3 investigation about how water is transported in plants- using observation over time and fair testing. Again children using the symbols and word banks.

L B. A range of strategies and processes for formative, summative and statutory assessment are used, which reflect a shared understanding of the purposes of assessment in science and current best practice.

The school uses Target Tracker for summative assessment and red and green dot task as part of formative assessment. However, through monitoring it was evident that the assessment strategies were not always a true reflection of the evidence of children's work and there was no working scientifically assessment in place.

Claire Seeley conducted assessment CPD for teachers which included TAPS assessment and introduced TAPS assessment in the summer term.

Using TAPS assessments teachers can now assess working scientifically skills alongside knowledge effectively.

Year 2 example of a TAPS activity.

Using the PLAN matrixes (also see slide 4), I created progression documents for science to support assessment and teaching and learning.

Progression documents have been particularly useful in identifying gaps in the children's learning due to lockdowns.

We also embedded Explore, Extend and Engage to KS2 and talk boxes in KS1 to support baselining the children's understanding.

EYFS using talk boxes and recording using floor books.

> Assessment is more effective because teachers have a better base line of children's understanding before they teach a unit of work. This feeds into their planning and identifying gaps in the children's learning.

> > Y6 completing a reduced red dot task after doing Explore, Engage & Extend task.

hat are the names for different types

hat is a name for insects?

05/01/22 Explore, Engage and Extend Mammals give birth to live young. Reptiles layegg and have Ecoles Most marine life has gills so they

Y3 & Y4 using EEE before starting

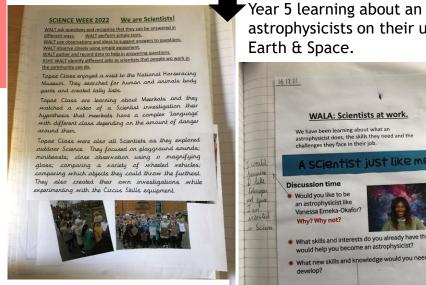
their unit of work on sound.

L C. Initiatives that encourage all children to think that science is relevant and important to their lives, now and in the future, are supported and promoted

There was little evidence of developing science capital partly due staff not being aware and Covid___ had restricted additional support such as clubs etc. I conducted a pupil voice and children were asked to draw a scientist. Most children were unable to identify themselves as a scientist and had already decided science was for clever people.

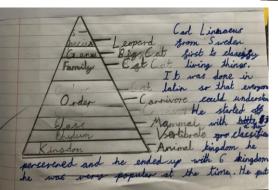
Before and after picture of a scientist.

After training on unconscious bias, I resourced a range of texts based on scientists from minority backgrounds and introduced 'A Scientist Just Like Me' across the school.



Year 2 learning about how to answer scientific questions on their trip to the National Horse Racing Museum.

The introduction of developing science capital has had a significant impact on our school and has fed in to other areas of the curriculum Children have a better understanding of how science relates to the world around them and the jobs scientists do. They have learnt about a rich and diverse of scientists of the past and present.



Year 6 learning about a Carl Linnaeus on their unit about classification.

WALA: Scientists at work.

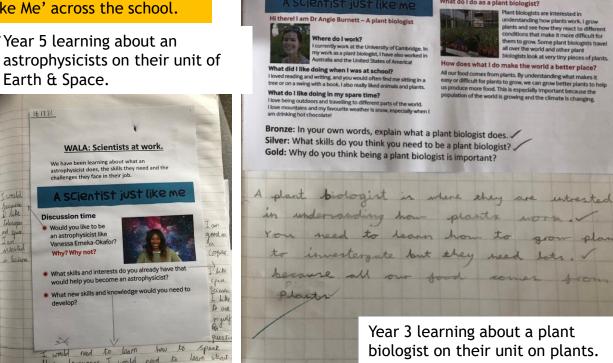
A SCIENTIST JUST LIKE ME

astrophysicist does, the skills they need and the

Discussion time Would you like to be

Vanessa Emeka-Okafor

I would need to learn other languages, I would need to



WALA: science at work - plant biologist.

Teachers are also adding science into other areas of the curriculum such as in assemblies linked to values.

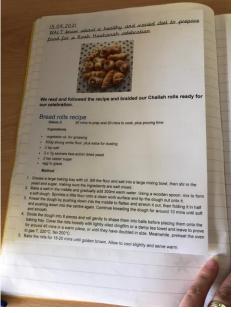
The Year 5 teacher did a collective worship session about forgiveness and that when you hold things in and hold a grudge then eventually it all goes bang which she demonstrated through a science experiment.

WO A. Curriculum planning links science to other areas of learning.

We have been re-writing our curriculum to have more links with science and science linking more with other areas of the curriculum

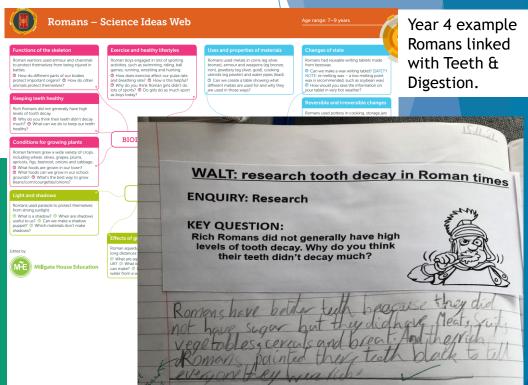
Dalham, Stud trip cience learning links WALT describe the life

During a staff meeting we looked at how science links can be made with other subjects such as history. I introduced the science ideas web to the teachers to support planning.



In year 2, science was linked with DT and RE. Children prepared a Rash Hashanah meal as part of their learning about being healthy.







This shows one example how the science web ideas was implemented into planning and teaching for Year 4.

In EYFS, science was linked with P.E and Art to support children's understanding of minibeasts.

In year 5, children linked their learning in Geography based on a local study of the area and equine reproduction. Children visited the stud and learnt about the racing industry as well as horse anatomy.

WO B. There is participation in some external initiatives, topical science events and family learning.

Covid restrictions limited visitors we could have in school and trips etc. It also has had a big impact of engaging families with home learning and since the return to school our uptake _ on home learning has been really poor.

> KS1 & 2 home projects.

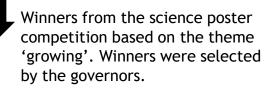


We did a big drive of family learning on the lead up to science week with flyers, science led collective worship, launching our principles and posting on our online learning platforms to encourage families to get involved.

ALL SAINTS' SCIENCE WEEK

Science week was really successful and when children were asked 'who is a scientist?' children all raised their hands when previously they didn't recognise themselves as scientists. Family learning was particularly successful in KS1 and LSK2. Lots of children entered the poster competition and many families got involved in family learning projects. We have also made links with parents who use science in their jobs.

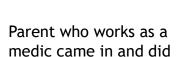






KS1 & 2 home projects.









WO B. There is participation in some external initiatives, topical science events and family learning.

Year 1 and Year got involved in 'World Mars Day' and joined in live on zoom.

Staff Saints 14 March • ©

Amber Class ZOOM'd into Mars Day as part of Science Week, we saw Tim Peake and watched how to create craters and launch rockets.
This afternoon we are learning more about Space Robots

#ScienceWeek 2022 #marsday



Children were engaged in topical science which broaden their learning.

The profile of science has been significantly raised across the school and links have been identified into trips and visitors which have engaged and sparked an interest in the children. The best bits from the children are always the experiences they have had.

Year 6 went to Pony Academy where they learnt about how to look after and ride a horse, including what it eats and exercise etc. Lots of science links were made throughout the week.





Year 4 had the school dental nurse come in to talk about keeping your teeth healthy.





Across the school, children have been on trips or had visitors in school.



Every class visited the National Horse Racing Museum and completed their science trails.



We have had a great start to science week with Year 3 visiting the National Horse Racing Museum. Children made comparisons between human and horse anatomy. Every class will have the opportunity to visit the museum during science week.

