





After PSQM

Our Vision

All children will become scientifically literate pupils of the future, through our hands-on, minds-on, inquiry based approach to science which stimulates children's natural curiosity to find out about the world around them.





FS









KS1 KS2 Whole School

Community

SL1: There is a clear vision for the teaching and learning of science

Action - Staff meeting to discuss and develop a clear vision for science at LVPS. Ask teachers to contribute to how they want science teaching and learning to look at LVPS.

for scrence to be a swength of toachonex earny aims school t is the main aim for you in regards to orthuse children Children being exacted by So rjoyment Rustining round around

All staff contributed and discussed the vision for science at LVPS

Our Vision All children will become scientifically literate pupils of the future, through our hands-on, minds-on, inquiry based approach to science which stimulates children's natural curiosity to find out about the world around them.

forchidnen to have good understanding

Impact – Staff know what science is at LVPS. Children are now aware of the principles and they are displayed around school.

I know what is expected of science in school now. I use the vision when planning so I can keep in line with the whole school' - Y4 teacher

Action - Ask the children what they would like science teaching and learning to look like at LVPS.

Is there anything else you would like school to offer in science?

- Science trips
- To use the new circuit equipment
- To investigate more outside
- Science day
- To find out things in the science lab
- Be a scientist

Is there anything else you would like school to offer in science?

Next Steps - Find ways to 'share of

learning' more. Hopefully this can

science fair and science clubs.

happen through out long anticipated

- To work in the science lab
- To get messy and make slime
- Science club
- Another science day!
- To do science everyday

Y6 investigating hearts.

> Impact - Children have been able to access investigations through teachers improved planning and have been given a wider range of resources and opportunities in science.

Action - Monitoring during lesson observations, learning walks and books scrutinise that our science principles are upheld and all staff are showing they understand the clear vision.

Hello Sophie

It was clear

children

across the

wanted to

'see' and

'do' more

science in

school.

from

school

On the 11th September I visited school to witness a science lesson with the year 6 class and Mr Blackburn. biology lesson covered the the circulatory system and in particular the dissection of Lambs hearts. The lesson took place in the new science lab and before I discuss the lesson may I please say what a great addition to the school this lab will be, a great place for our publis to learn and the wall art is breathtaking. The lesson started with the pupils being given a short time to discuss amongst themselves what they knew about hearts, this was then followed by a short question and answer session with Mr Blackburn, publis seemed very knowledgeable about the subject from the start.

The hearts were then handed out and the pupils were asked to compare the hearts and their parts to the pictur projected on the screen. This was then followed by the dissecting of the hearts, which the children enjoyed and seemed to gain a lot of knowledge from.

This was then followed up with another short question and answer session.

Overall this was a very enjoyable lesson and I look forward to seeing more lessons taking place in the lab.

Thank you,

Sunflower

Governors

-report

deliveries for all children in lockdown



Linking to vision and principles of science Presentation

Knowledge based – curiosity Coverage and activities match objective Range of investigations - hands on!

Book look record

Make sure all lessons have a LO if work is in books

Pre and Post Assessments must be in books (please date when post a

Revisit knowledg

Keep ensuring children respond to marking, giving full explanations where needed to move learning on. E.g. How do you know? How did you work this out? Tell me more

Next steps – Ensuring the principles are regularly referred to in class and assemblies to keep the profile and expectation of all in science current.

Impact - Sharing our vision and principles kept parents informed of our goals during lockdown and supported continuing 'hands -on' science at home.

SL2: There is a shared understanding of the importance and value of science

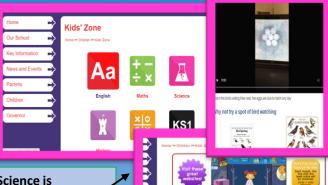
Action - Ask all classrooms to display relevant science words for their topic at all times.



Displays now key vocabulary and knowledge. Most are also interactive.

Next steps -Continue to monitor displays

Impact - Display boards are clear and up to date. Children use these regularly in lessons and most children commented on them during learning walks. Action - Upload, update and review the school website for recent and relevant science happening in school or around us.



Science is regularly updated with information, games, photos and videos. It has been especially important keeping children up to date during lockdowns with videos like the 'bird cam'.

Impact - Children, parents and the wider community are able to access up to date news in science at LVPS. The interactive resources kept science fun during lockdown as well as inspiring ideas for home learning,

school took day with a variety of visitors such as Professor post farm reptiles, Lego robotics and

pets at home.

We were in the local newspaper

> Impact – This science day science and the science lab. The children still talk about the day and ask for another one regularly.

Action - Have a scientist of the term award for each class



Some of the scientist of the term recipients! We also invited children to apply for a science ambassador role in which they receive a pin to wear on their unif

Impact – The awards and ambassador roles have given more value and importance to science at LVPS. Children are keen to receive an award and want to be an ambassador.

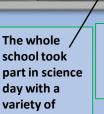
Next steps - Continue to keep website up to date. Launch Science club and science

fair when restrictions are lifted.



Action - Arrange a science day to

launch the new science lab



The whole part in science **Bubble**, White







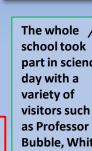
Before PSQM we didn't

science curriculum offer.

have any relevant

information on the

website – only the



started the buzz around

SL3: There are appropriate and active goals for developing science

Action - Use the budget to purchase high quality resources. Actions to be dealt with promptly, impact to be monitored, changes made where necessary.





Resources have been organised so that staff and children can find what they need quickly and easily. All resources are class amounts so all children get to use them.

It really helps knowing that whatever I have planned, we have the resources. We have never had this before so it feels lovely to enjoy this with the children and for them to be excited to

use different equipment -Y5 teacher

Impact - Children and staff are able to use a wide range of resources which makes lessons memorable and engaging.

Next steps - Continue to audit and replace/mend resources when needed. **Before PSOM** we had resources that took the space of one small shelf.

Governors are updated regularly on latest plans for staff development, new resource purchases and assessment.

Governor for science taking part in a learning walk observing science in the whole school.

Impact - Keeping governors involved has meant that any changes and developments have been supported.

Action - Keep governors up to date with reports and invite regularly to observe and take part in science activities in and out of school.

'I really appreciate being asked to see the wonderful science happening at Lawrence View. I particularly enjoyed today with the younger children learning about animals and pets.' Chair of governors.



Needs attention

Staff Development: (Autumn

Staff meetings

Vision and Principles of Science at LVPS - Led by Sophie

Enquiry types - What are they? - Led by Sophie

Planning Science - Led by Sophie

The subject leader has attended a **Cluster meeting** which led to a discussion on provision

Staff are to access INSET training provided by TT Education on Science across the curriculum

Online CPD - Reach out. Staff can access at home and return for subject knowledge as

Ofsted Subject leader training

Monitoring activity: Learning walk Science Date of report: 19/01/19 Monitoring by: Sophie Stevenson (SL) and Scott Ufton (Governor Science) Report by: Sophie Stev

Key strengths

- one lesson, children were given challenges to choose from (think of your ow

speech bubbles, and post it investigations. These were recorded in a variety of

Action - Make sure actions in SIP are a priority during the PSQM



Continuous CPD in subject knowledge was a key point in the SIP. This online tool has been extremely valuable for its home access during lockdowns and staff feeling in control of their own learning needs.

> 'Science is a strength at Lawrence View. Staff have had an incredible amount of training and the SL ensures that science is effective' - EIA

	using flow chairs. Again children can	THE WATER CYCLE	
	either complete or design and complete depending on ability		
Lists	Simple tool for recording information.	List the different things in your house that use electricity	
Concept Cartoons	Great to begin discussions but can also get children to create their own concept cartoon including deliberate mistakes	wn their snowman. One of then	
Concept maps	A representative of the links between various concepts. The concepts are shown in bubbles; children make links between them using arrows and words	re about forces?	
Deliberate Mistakes	Deliberate mistakes in texts or investigations allow children to demonstrate their understanding in correcting the errors - especially if they are mistakes made by the teacher!	Give children the teacher's results and conclusion to "check".	
Diany Entry	Particularly useful when discussing	Write a diary entry by Sir	

Many resources have been handed out during staff meetings with ideas on teaching strategies and presenting work. Teachers have been great at sharing ideas and helping each other.

Impact – SL and SLT have worked together to ensure the SIP actions are completed. Staff feel an increased confidence in subject knowledge at the SL has been given opportunities and training to ensure effective leadership.

Next steps –Continue to use pupil and teacher voice to decide on next steps in science with SLT

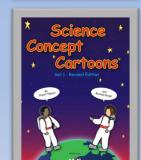
Continue regular links with governors and feedback and updates are given

SL4: There is a commitment to the professional development of subject leadership in science

Action - Research, decide and book onto relevant course specifically tailored to our schools needs – (staff subject knowledge, SL increasing subject knowledge, latest research)

Action -Staff meeting to show and inform staff on other online CPD units they can complete

THE BEST WAYS TO TEACH
PRIMARY SCIENCE







Another tool used was Focus Education which we use at school for our curriculum and leadership.





NICKY WALLER

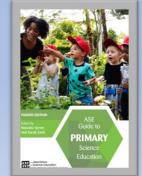
A CREATIVE

APPROACH TO

* TEACHING *

SCIENCE

The what, why and have af breathing life back into science teaching life back into science teaching life.



the confidence and tools to change science at LVPS. It has changed the way I lead science.

Our EIA inspection

PSQM has given me

Our EIA inspection
highlighted the impact of
CPD of the SL and staff and
the impact it has had on
teaching and learning in
school.

'I find the books Sophie has purchased so useful. I use them all of the time to help with ideas when I'm planning. I like to try new things so it's great to have the latest research provided to use than spending hours trying to find it.' – Y2 Teacher

year. Good practice seen in science, English, maths, geography and history will provide an effective model further develop the skills of others to lead their foundation subject.

Evidence and evaluation of curriculum implementation

Discussions with the science and history/geography leads shows that subject leadership in these areas has strengthened. They can clearly articulate the barriers to learning, the curriculum intent. They can evidence the CPD staff have received which has had a positive impact on improving staff skills and knowledge, and this can be seen in learning walks where teachers are more confident in teaching science.

Science and history/geography leads are clear about the learning that is happening across school and can clearly articulate links between areas and explain coverage of knowledge and skills.

Subject leader action Plans are in place and have been quality assured by senior leaders and these are clearly linked to issues identified in monitoring. They are focused on the correct priorities and include

identified CPD needs of staff. Science, geography and history subject leads are clear about next steps in subject development. Subject leaders and other staff are trained well.

Monitoring by science, maths, English and geography/history subject leads is thorough and being used well to identify next steps. Curriculum maps that are in place, provide clarity around the progression of skills and the quality of teaching, particularly in science, has improved.

Key strengths identified in recent learning walks show that teacher subject knowledge was strong in science, which is a strength of the school and is an area most staff feel confident in. Teachers work hard to make learning fun and memorable in science, which is enhanced by the well-resourced science laboratory. The curriculum fosters scientific thought and skills. Where teaching is less than good, subject leaders have worked with staff offering advice and support and improvements in teaching have been seen.

Impact – Staff have been able to access the latest research and pedagogical approaches in science which has ensured best practice. Purchasing and sharing high quality texts has made them accessible and useful.

Joining the ASE has given me lots of advice and is a valued resources not just for myself, but staff too.

Next steps – Continue to develop TAPS in school to streamline science moderation and give clarity.

Continue to engage with CPD and disseminate to staff.

To continue using SL time to manage science and its development.



Action - Regularly send latest research, pedagogical ideas and profession development opportunities to all staff.



SL5: There are monitoring processes to inform the development of science teaching and learning

Action - Decide with SLT on the monitoring activities that are relevant and appropriate to how we work at LVPS

Teacher Voice - Science - Summer 2 2019 I wouldn't say science is my strong point. I am frightened I'll tell the children something that is wrong I don't really know what I'm doing. I find a lesson plan and stick to the lesson plan. **Teacher** voice

Teacher Voice - Science - Spring 1 2020

How do you feel about science?

I know what I'm teaching now. If I don't know something, I'll ask

I love teaching science especially using Explorify, the children love it!

On a scale, I'd say about an 8. There is always something I have to look up on Reach Out to refresh.

I would say I'm confident now. I know what I'm teaching and I know what I'm talking about.

RQT supported **Enquiry skills tracker**

S	41444		9		
Observing over time	Pattern seeking	Identifying, classifying and grouping	Fair and comparative testing	Research using secondary sources	Analysing and presenting data
1/6-		50	Ve.		
				5	
	7		-	8	
		e wire			

Science in **bubbles** monitored



Action -Have a rigorous and regular approach to monitoring, reflecting and responding to findings with actions to implement

the quality of teaching, particularly in science, has improved.

feedback. Ensure children can see and are aware of the changes made or celebrated due to their input.

Action - Act on findings from pupil voice

Action- Feedback to staff of strengths and developments needed to ensure good communication and expectations

EIA report on monitoring and

impact Monitoring by science, maths, English and geography/history subject leads is thorough and being used well to identify next steps. Curriculum maps that are in place, provide clarity around the progression of skills and

Key strengths identified in recent learning walks show that teacher subject knowledge was strong in science, which is a strength of the school and is an area most staff feel confident in. Teachers work hard to make learning fun and memorable in science, which is enhanced by the well-resourced science laboratory. The curriculum fosters scientific thought and skills. Where teaching is less than good, subject leaders have worked with staff offering advice and support and improvements in teaching have been seen.





l enjoy it when Sophie monitors science. She makes it informative yet informal and I always find something out or learn something new to do or use when we have had a chat about what she has seen in my class' - **RQTY1**

Children wanted to investigate more outside and in the

science lab

Is there anything else you would like school to offer in science To work in the science lab To get messy and make slime

Pupil

voice

To use the new circuit equipment

To find out things in the science lab

To investigate more outside

Is there anything else you would like school to offer in science?

Science club

Science trips

Science day

Be a scientist

- Another science day!
- To do science everyday

Impact - Monitoring has identified teacher and pupils needs and thoughts which we have put into action. Regular learning walks, book looks and planning checks are completed and this enables the SL to find areas for development and act upon them.

Staff feel supported and improvements in teaching and learning have been identified.

Next steps – Ensure pupil voice goes ahead on teams until restrictions end and then have half termly meetings. Continue rigorous monitoring and make strategies and plans for development when needed.

Develop TAPs to ensure monitoring of work across the school is cohesive.

T1: There is engagement with professional development to improve science teaching and learning

Action - Share ideas, websites (e.g. ASE), and challenges/competitions, on-line resources with teachers via email or staff meetings to help develop subject knowledge and inspire ideas.

Please could everyone have a look at the link below and use the training to your needs.

It does recommend 3 hours per week for three weeks in total. I know some people have

extra commitments at the moment but I would really appreciate it if you could get out of

It's a great way to refresh and get some new ideas for practical Science teaching

The training is online, free and run by STEM.

this what you need, when you can.

Thank you

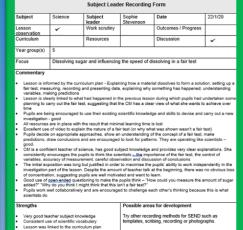
Email correspondence

training/development

and links to activities.

for online

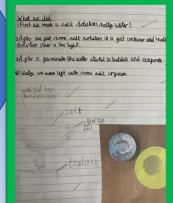
Action -Feedback recent lesson monitoring and discuss area for development



Pupils encouraged to plan and then build on the previous knowledge/skills Sood level of intellectual challenge

'Sophie always sends me emails or leaves post-its on my desk if I'm struggling for an idea or something new she has seen to try like 'odd one out' on Explorify – Y4 Teacher

Some of the online resources shared and used by staff during lockdown for development of teaching and learning.



Science observations are something I look forward to. Now I have all this information and resources I want to know how else I can use it and Sophie always has suggestions . - Y5 Teacher

Action - Make use of the online CPD -

PSTT CPD modules online/ Reach out

CPD from Imperial College

Teaching Strategies - Science

Sorting and grouping strategies e.g. Venn Diagrams

Vocab games – bundles of three – why have you bundled those three words togeth

A lesson observation in Y5 -

to help children with SEND.

understood by teaching using

a more manageable way.

suggested another teaching strategy

Next investigation shows child has

specific skills and presenting work in

Teaching specific skills

Active Assessmen

Play based learning

Staff are confident and happy with the monitoring and support they get from this.

Impact –

Action- SL to lead staff meeting linked to key findings from monitoring activities



Teaching

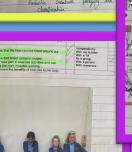
strategies

shared at

meetings

staff

Some of the strategies discussed in staff meetings etc seen in science books.



support and share ideas

about best practice and

provide feedback for

and helpful.

Impact -**Engaging in**

development of teaching and Next steps - Continue to learning is giving children a better learning experience that helps all development that is useful children and learning

preferences.

I have found these for forces! i hope it helps : https://explorify.wellcome.ac.uk/en/activities



mage, video and hands-on activities are sur

ned at in the next few weeks

Here is the links - http://www.reachoutcpd.com

I have found some online science CPD which everyone can access for free

breaks each section down into topics and not only gives the CPD via images, scripts

eos, it also has resources that are free to download. The key part of this site I ld like you to all have a go at is the 'working scientifically' element which is where

you have completed this section if you let me know what you thought and if it

explorify.wellcome.ac.u









T2: There is a range of effective strategies for teaching and learning science which challenge and support the learning

needs of all children.

Action - Plan a staff meeting to discuss creative approaches to science teaching that have been used before or seen.

Action -Share in the half termly staff meeting, new games, investigations etc with each other.

Outdoor

learning



Presenting and communicating - Science

Doing or demonstrating (live or to camera)

Video or podcast

- Powerpoint presentation
- Letter, email, text, twe
- Advertisement

Sharing ideas together makes planning much less stressful and reminds me of things I haven't done in a while -Y4 Teacher

Sharing idea's is a great way of finding out and trying new things – Y2 Teacher

Putting strategies together and sharing ideas for the needs of all our children has made teaching and learning varied, accessible and fun.

Impact - We now have a working list of ideas and strategies the SL and staff have used and/or found to challenge and support the learning needs of all children.

Drama -Role play



Graphic organiser





Presenting



Post-it sorting



Impact - Children

have been able to

curriculum through

different teaching

meant all children

styles which has

access the

have been challenged and supported.

Using pictures to label



Vocabulary games



Next steps - Continue to bank and explore new teaching strategies and continue to change these to the needs of our children. Try new strategies regularly and share with colleagues Continue to find news ways of working to engage online

Action - SL to introduce a variety of teaching/learning approaches at staff meetings. Invite all teaching staff to try something new each week and feedback with evidence at the next science meeting.



learning.

T3: There is range of up-to-date, quality resources for teaching and learning science which are used regularly and

safely

Action - Carry out resource audit. Label equipment and ensure it is easily accessible for teachers and children.





es meras irds

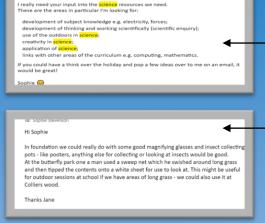
Exciting new resources including a school bird nest cameras to use in the school Woodland, we saw birds hatch during lockdown!





Having bought in a wider range of equipment, science ambassadors have been made responsible for the resources and ensure that all classes can easily access resources.

Action -Consult with teachers to create list of new resources needed.



Magnetic chips

Action -Source out 'free' resources (including online) and share with staff

Resources
are
organised to
ensure easy
access and
resources are
logged
in/out and
any repairs
or
replacement
s are logged.



CLEAPPS is always available in the staffroom for access to the latest safety information. This has been particularly important during restrictions due to COVID19. SL made sure these were distributed online.

Horseshoe magnets, Bar magnets, wands and marbles

Impact – Having access to high quality resources ensures that all children can learn and have memorable experiences and opportunities.

Emails

were

sent

asking

staff if

there

was

they

anything

thought

would be

useful for

their year

group.

Action - Consult with Head teacher over budget

Action - Ensure CLEAPSS newsletter is available to all staff in staffroom Our resources have been purchased through priority budgeting. Science resources were a clearly needed so we made it happen. Science was the priority. The resources have changed teaching and learning significantly—Head teacher

Action -Show staff the new equipment and protocols when using equipment

Planning shows a wider range of resources being used.

We stay safe
when using
equipment by
listening to our
teacher and not
using it until we
know how – Y3

Being able to have the time in staff meetings to really look at and use the new resources inspires me to find different ways of using them –Y6 Teacher



All classes have books related to their topic in science and also get to choose books for their interests.

Next steps – Audit resources regularly Replace and mend resources Purchase new resources when need arises

L1: There is a shared understanding of the purpose and process of science enquiry

Action - Staff meeting -Introducing/reviving science enquiry types

Shared in staff meeting



Inspired by a tip from PSQM training, a document was made to log skills that are used unintentionally in lessons which show the breadth of skills used over time. It also indicates any gaps in skills that need to be covered.

SL created a

can be used. It is

children when it is

encouraged to

use skills with

It's great to know I'm providing opportunities to use all the enquiry skills and I know

Impact – Teachers are making sure they cover the breadth of enquiry skills for all children at the point of planning. **Action** -INSET day – defining science enquiry types and introducing investigation strategies- supporting staff in matching science question to enquiry types

enquiry skills progression document to help with planning. This is for reference it is not prescribed as the 'only' skills that

Questions for written down and expanded are given to teachers

opportunities to ask questions, plan and investigate. This has helped children to remember by being hands-on which is part of our principles. It has also ensured that children remember 'doing' which in

turn, helps them to retain

knowledge.

Developing independence in carrying out investigations.

Action - Pupil voice - What do our children investigate currently? How can we improve science enquiry?

Analysing and interpreting data using IT

Action -Conduct a learning walk -Specifically to look for investigations, use of enquiry types and children asking scientific questions

o identify next steps. Curriculum maps that are in place, provide clarity around the progression of skills and he quality of teaching, particularly in science, has improved

ey strengths identified in recent learning walks show that teacher subject knowledge was strong in scienc hich is a strength of the school and is an area most staff feel confident in. Teachers work hard to make ing fun and memorable in science, which is enhanced by the well-resourced science laboratory. The

Feedback from EIA after mock 'deep dive'

Research

Red bloods cells

Red blood cells are and with a glattach industry depth of the doughouts without a moderted conter, who doughouts without a hole fled blood cells carry fresh oxygen throughout the body of to very important to up health. Honoglobio is the protein and ex to blood cells it consecurities oxygen and red blood cells remove corror directive from your body transporting it to your week lungs to exchale.

White blood cells

white blood cells (WBCs), also called leakneytes or leoyites, are the cells of the unimum, system that are involved in protects the body against injectious disease. All what blood cells are produced from multipotent cells in the born marrow. All white blood cells have muclei, which distriguishes them from other cloud cells.

Children questions being investigated



Children are using a wider range of equipment for things like fair testing – Y2 Teacher

Next steps - Ensure children continue to ask questions and investigate through monitoring. Ensure opportunities are given for scientific enquiry outside the class room.



appropriate and they are able to. what they are! - Y3 Teacher

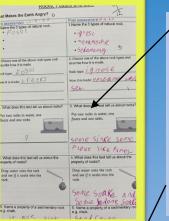
Impact - Children are given

L2: There is a shared understanding of the purposes of science assessment and current best practice

Action - Explore different models of best practice surrounding science assessment **Action** -Staff meeting – Explain and set non negotiables about science assessment

Formative

Summative



∕Pre/Post assessments are something we do throughout all subjects. During the PSQM year the post assessments show us that children have retained more information away from the point of teaching.

I noticed

Impact – Assessment of children has shown that retention of knowledge is far greater and children are applying knowledge in future learning.

Continuing questioning which prompts feedback

the aorta, veins and a

breathe in oxygen comes body and it realeres wouth

released? what else does blood carry around



The staff meeting gave me a chance to share new ideas for assessing learning. - Y2 teacher

Knowledge

documents

together using

PLAN by the

SL. Teachers

know what

came before

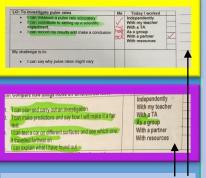
and next.

and skills

have put

Whole school approach for all subjects in books so teachers can indicate when

Action - Meet with SLT to discuss needs of EaZMAG and expectations of use



Children know criteria for success in each lesson and mark this depending on their understanding.

Age appropriate formative assessment

Pre-Post assessment - Best Practice from English and M

What do you use in class?

at LVPS. This has been harder to embed with COVID 19 restrictions but we hope the progress we have made so far will have the intended impact of all areas being in place to show progression and areas of

need.

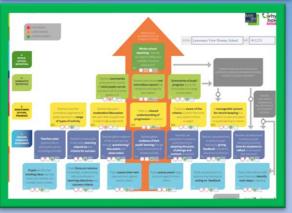
We have

assessment

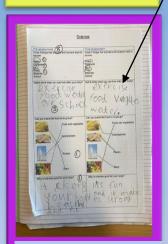
made progress

with



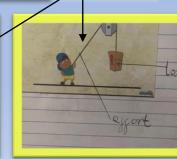


Next steps – SL to continue use TAPS as a whole school assessment tool and following current best practice from future training/research.

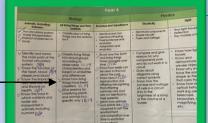


Staff use a range of age -appropriate methods to assess learning.

Concept cartoons now used widely for formative assessment



achieved.



L3: There is a commitment to developing all children's science capital

Action -Make links with the wider community and ask for science professionals to talk to children about their jobs and careers and how science in used.



Impact - Children are remembering experiences in school and are able to talk about it after the event.







During this session - the presenter spoke to children about his former role as an aircraft engineer!



All children taking part in outdoor classroom - planting potatoes and seeing

Action - Encourage discussions in lessons about investigations to discuss how they are relevant to their lives



Learning about recycling with NCC



Planting and making bird feeders



the results!

Children have a greater awareness of Science is part of their lives and their futures.

> Impact - Children are having opportunities for science at home

Action -Invite children to become science ambassadors

Parents use the links to science websites on the school science page. Letters were emailed to

promote science at home.



Further Reading for Parents

An overview of the Science Curriculum ht guides/science-at-primary-school,

Links for Children and Parents

KS1 Science guides and clips https://www.bbc.co.uk/bitesize/subjects/z6svr82

KS2 Science guides and clips https://www.bbc.co.uk/bitesize/subjects/z2pfb9q

nal Geographic for kids https://www.natgeokids.com/uk/category/discover/

Ideas for Investigations - ask an adult's permission or for guidance!



Knowledge organisers for all children show our science and school principle of aspirations and careers in the future.



Interactive displays in the corridors ensure pupils discuss science throughout the day



In response to pupil voice, science themed assemblies take place, we hope to continue these every half term.



Next steps – Continue to provide opportunities for children in school. Update displays regularly

WO1: There are appropriate links between science and other learning

Action - Ensure that staff are aware of science skills that are used in

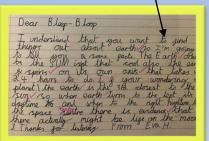
investigations and lessons.



All pupils are now applying mathematical skills in a wide range of scientific contexts.



Writing stories are now used as a stimulus for Science – Some even use IT too!





STEM opportunities with our new Lego!



clubs-Mechanisms, making a healthy meal for your body and mixing ingredients to make bread.

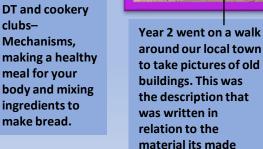
Action -Book staff meeting to encourage thinking - Schemas





Dinosaur topic work in history and bones, fossils and rocks in science

Space art in Y5



from.



Science is now a part of whole school initiatives such as the Eco club which ensured that pupils are now engaging in a significant amount of science outside of science lessons.

Planning scrutinies are showing cross curricular links

> Impact - Cross-curricular links offer s a creative way to develop children's knowledge, skills and understanding while motivating them to learn through stimulating, interconnected topics.

> > Next steps – Look for cross curricular links in other topics.

Find training on progressing cross curricular links with science

WO2: There are appropriate links with families, other schools, communities and outside organisations to enrich

Home Learning

Great bug hunt

science learning

Action - Complete science day and book in science week and ensure children have access to events in the community in relation to science

Science day gave all children a 'wow' and completing investigations



We invited STEM Lego to show us how to use our new lego kits!



'All about your pet' day at our local pet store.



Impact – Children are able to talk about their learning in science in other contexts.



Our local butchers gifted us hearts to use in Y6



Parachute experiments and den building with children from another school – pre covid

We loved the great bug hunt! It was lovely to get outside for fresh air and learn at the same time -



Action -Find and book initiatives such as 'Green Day' in our local area

Local waste center visit and Vileda Recycling trip



I've never seen robotics before, only on the TV. It's amazing! – Y5 Child



Impact – Children are aware there are science opportunities all around them.



Next steps – Science fair and for parents and carers to join us.

Re-establish links with the local

Re-establish links with the local secondary school Book trips and visitors Science at Lawrence View is our strength. We have made such a massive difference in a short amount of time. I'm looking forward to continuing this journey in more normal times — Head Teacher

I love science, its my favourite subject. I want to be an engineer for NASA! – Y5 Child



As SL I feel our principles, vision and school vision are being fulfilled. The impact of the PSQM in this difficult year has been incredible and it can only get better!





It's just so different.
Everything is organised, I
know what I'm doing now
and for the first time I enjoy
teaching science! – Y4
Teacher

