

Pre-PSQM

Science is a

subject

Riverside,

low and

Subject Leadership - A Clear vision for science. created and implemented by teachers and children. through principles for teaching and learning.

Key need: a clear vision for science.

Reference date on development log:

07.10.21 10/11.11.21 16/17.11.21 14.12.21 15.12.21

At Riverside we use songs, raps and rhyme to embed learning. Using a memorable tune (If you're happy and you know it) even the voungest members of the school can now remember what is science.

During PSQM Impact

> Riverside Primary @Riverside_Pri · 5d ···· Meet our new #RiversideScienceSquad We learn about the world around us that's for sure. Describing, looking at experiments and more. Knowing facts and then researching, questioning and then exploring. We are scientists at Riverside for sure. 🧪 🧬 🧫 🎠 👲 🚘 🛽



Pupil voice is at the heart of success. The Science Squad created a song so that the WHOLE school have the same understanding of... WHAT SCIENCE IS!

At Riverside, Science is... We learn about the world around us that's for sure. Describing, looking at experiments and more.

Knowing facts and then researching,

questioning and then exploring.

We are scientists at Riverside for sure.

Children and teachers have a firm understanding of what we expect science to be at Riverside. The shares values means EVERYBODY has been involved in the design and content and will share its success.

To this

Science would

be better if we

did more

and went

at nature.'

Year 3 child

experiments

outside to look

Teacher voice – essential to gain a clear understanding to design key principles and vision.

'To be involved in deciding what is important has made me want to be involved in science at Riverside. I feel valued and a part of the design for the vision. It was interesting to see other colleagues comments on what they valued too Year 2 ECT teacher.

Initial development of science principles and vision, shared with both pupils and teachers.

4000 to 1000

ecure scientific knowledge ultivate curiosity nvestigate! Investigate! Investigate! xplore the world and beyond! ever stop questioning' -WHY? HOW? onsolidate and deepen prior knowledge Courage science capital and links with other subjects. Meeting chat

- "\"Kate Weatherall (Guest)... 16:19 Describe 2/3 teaching methods you think are an essential part of teaching science well.
- Rach Cox (Guest) 16:19 RC Allowing exploration and addressing misconceptions
- Eleanor Jones (Guest) 16:19 Using real life resources to make it practical and real situations
 - 16:19 Questioning. Feedback. Relationships. Responsive teaching.
- Beccy (Guest) 16:19 Hands on experiences, questioning, predicting
- Eleanor Jones (Guest) 16:20 Seeing things in different viewpoints, e.g. debates
- bensonf 16:20 How to teach children to verbalise their thoughts and questions. Give them the necessary voacbulary to do this.
- Nicko (Guest) 16:20 Chemistry, Physics, Biology (they ARE the three parts! ;) -

Anah (Guest) 16:20 modelling an experiment and feedback

X



Subject Leadership - B Strategic support enabling improvement to take place.

Pre-PSQM

Key need: better scheme of work and CPD to develop subject knowledge and delivery.

Reference date on development log:

03.09.21 17.09.21 04.11.21 16.11.21 01.03.22



'Lessons are more exciting and practical now. We do more experiments and challenges. I like the videos of experts telling us how they use science in their iobs. I have learnt a lot of vocabulary I didn't know before.'

During PSQM

Impact

Year 4 pupil.

Pupils are more engaged in lessons and excited for science in their working week. They make use of more practical lessons and resources.

CPD, independently carried out by teachers on areas where further subject knowledge is needed. ECTs have been given guidance on how/when to undertake training. Certificates are then obtained.

How do you rate the scheme?

SWITCHED ON Quite good, it Science Poor, the

> Majority: Poor, the scheme needs a lot of adapting to teach it properly.

red: 5 Skipped: 0					
Excellent, it saves me tim					
Quite good, it has interest					
Poor, the scheme needs					
Other (please specify)					

Majority: Excellent, it saves me time and children enjoy the lessons.

Teachers confidence in delivering science to a high standard is now evident. More practical experiments and focused questioning is being used in lessons.

Does the scheme help with workload?



Majority: No, there is a lot of content so time is spent planning for my lessons.

Ves, it is				
easy to foll				
Some topics still requir				
No, there is a lot of conte				
Other (please				

All: Yes, it is easy to follow and plan for lessons.

The Switched on Science scheme is in place, however it is broad and in need of adjusting to teach it to the standard we want.

At the beginning of the spring term, we trialled the **Developing experts** scheme. Teacher's voice was valuable to the decision making process.



'Developing Experts I love, makes it so clear and simple to follow. Love that it brings in real life people as well so we can see science in action. I love the videos of the investigations as it helps when planning exactly how to do and what equipment to set up, that's what I need to improve.'

Year 3 teacher.



An effective

that informs

science.

monitoring and

development in

improvement cycle

Key need: Clear working

walls for children to be

progression in books.

able to use. Clear

Subject Leadership - C

Pre-PSQM During PSQM Impact

'The feedback celebrated and shared success with everyone, which gave everyone a sense of achievement. The general actions for development meant everyone was on the same page and treated as equal.'

Year 4 ECT



Specific yearly

feedback stating

Year 2, there is an amazing amount of scientific writing going on. The worksheets used are relevant and achlevable for the class. Again, some amazing tweeting going on. I loved talking to your science squad members about what is alive, not alive and used to be alive. Your use of scientific evidence shows children's understanding and enjoyment - BOOM!

Please ensure vocab is at the heart of your lessons. With the new scheme giving about 5 key words each lesson, make sure they know and understand at least one NEW one each week. This can then be added to your vocab tree. Year 2 uses actions to help them remember, this is a great tool.

Reference date on development log:

07.10.21	
19.11.21	
08.12.21	
16.12.21	
24.01.22	
26.01.21	
14.02.22	
18.02.22	
02.03.22	
06.05.22	

strengths and areas for development. hursdall att pe

> 15 80

> > 1

Progression of 'Animals including humans' throughout the school.



'The displays were always too crammed and

Teacher voice highlighted the need to clarify our working walls so only relevant information is displayed. They are added to weekly within the lessons, celebrating work and embedding key learning.



'Now they are clear, ordered and only have relevant information, like: vocabulary, key learning and interesting facts that we don't forget.' Year 6 child.



learnt

Vocabulary Key facts

Learning S. Enquiry intention type being

Progression is clear in books and working walls demonstrating the learning and key concepts throughout the school from foundation stage to Year 6. There is evidence of s.enquiry, investigation, recording and evaluating. Children are able to hake links from previous learning.



Teaching - A Engagement with professional development.

Key need: Teacher subject knowledge. Work load and wellbeing.

Reference date on **development log:**

10.10.21 13.10.21 19.10.21 06.11.21 19.11.21 30.11.21 07.12.21 05.01.22 18.01.22 25.02.22 01.03.22 28.03.22 05.05.22 Pre-PSQM During PSQM

Shared 'intent, implementation and impact' for science.

Impact

'I feel that I have gained a lot of support in teaching science. This was not a subject I was most comfortable in so the Reach Out CPD, subject leader guidance, new scheme and team teaching has helped a lot' Year 1 teacher.

tigtag 🔆 Imperial College





"The important thing is to never stop questioning!"

"To raise new questions, new possibilities, to regard old problems from new angle, requires creative imagination and marks real advance in science" - Albert Einstein

'Scientists have become the bearers of the torch of discovery in our quest for knowledge.' Stephen Hawking

Developing loping Experts – Progression of Knowledge Docum xperts cluding humans, have luding humans, need th unctions of the basic part parts of the human mmon animals pring which grow in tt types and amount o the digestive system ulatory system, an es, birds and mar utrition, and that they lescribe the functions o not make their ow ify and name a variety Find out about and des ntify the different type food; they get nutritic eeth in humans and the basic needs of animals, om what they ear uding humans, for imple function ntify that humans ar diet, exercise, drugs and me other animals hav ifestyle on the way the ty of food chains letons and muscles f dies function cture of a variety of ifying producer port, protection and mon animals (fish mans of exercise, eating escribe the ways in whit tors and prev bians, reptiles, bi right amounts of trients and water are nd mammals including sported within anin ent types of food, a luding humans abol the basic parts of the iman body and say whic art of the body is

Clear progression map.

'The 1:1 meeting with the science lead has reassured my planning and delivery is high quality. We discussed the planning on DE and how to use it with cross-curricular subjects.' Year 4 ECT.

'We used graphs in maths like we do in science to show results.' Year 4 child. 'Kate has transformed science this year! Outstanding leadership.' Anonymous staff shout out board in the staff room. Teachers are now so much more confident and feel they have clear guidance in delivering high quality science.

who	am 17	Animals, inclu	ding humans.
Vocat backbone mar lobe elbow. scre socket. hiss. ioints. cB3. thish. tonsue. wertebrae. nail.	Here the over the second secon	An called the upper and a set bord out and set also bord out and set also bord out and set also bords. Set als	S five senses: touch, taste, hear, sight and smell six main groups of animals. These are: invo is a natural home environment for plants and is a natural home environment for plants and s are animals that heave a diet that consists mo s are animals that do not eat meat and inst vegetables or sends.
By the - I can de: - I can nam - I can tell - I can say sense.	end of this topic scribe key features to identify different animals. and lobel parts of the human body. you about the different senses. which part of the body is associated with each	Prior Learning: I know about similarities and dif- ferences. I can talk about animals and plants and explain why some things hap- pen. I can talk about changes.	Some children may tkink: only four-logged mammals, such as pets, are ani human are not animals insects are not animals all bags or 'creapy romilies', such as spiders, an port of the insect group. amphotism and reptiles are the same.

Previous knowledge organisers were dull and too 'wordy' – Y6 child

Developing Experts provides more detailed knowledge organisers including key vocabulary and learning. This helps teachers prioritise teaching needs and subject knowledge.



'Myself and the children are more confident in our subject knowledge. We refer to this knowledge organised weekly to recap and embed learning.' Year 2 ECT



Teaching - B Use of a range of effective teaching and learning strategies.

Key need: To embed the scientific enquiry skills. To use a range of teaching strategies.

Reference date on development log:

17.01.21	
20.01.22	
13.10.21	
06.11.21	
07.12.21	
08.12.21	
20.01.22	
25.01.22	
01.03.22	



Introduce new science enquiry type symbols across all key stages so that children are familiar with them from an early age.

Riverside Adders @RPS Adders · Mar 11

We LOVED this session! What a great way to get us thinking about light ready for our new science topic too. Thank you to @allaboutstem #BritishScienceWeek #riversidesciencesquad Thanks also to Mrs Weatherall for arranging this fun event. @Riverside_Pri

mar Riverside Primary @Riverside_Pri · Mar 11 @RPS_Adders have enjoyed their STEM session with @allaboutstem. We learnt about renewable energy, made circuits and looked at safety as scientists - we did like Michelle's choice of glasses. Thank you for our new book all about solar energy. 👹





Introduce new science scheme DE.

Curriculum Fields

National Curriculum

Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them

working Scientifically Skills

Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate

Clear signposting to the scientific skill being taught for every lesson, making it easier for teachers to identify and highlight during lessons.

interested and on

task during hands

on investigation and sound walk

around outdoors.

··· Brambles @RPS_Brambles · Nov 30, 2021

Today in science we focused on our sense using our ears (sound). First, the children made their own listening ears. Next, the children took part in a listening walk inside and outside of the building #RiversideScienceSquad



Outside agencies brining current science issues to life through high quality texts.

New technology bought into the classroom to engage and excite children.





Riverside Kingfishers @RPS_Kin... · 1h ···

Empowering teachers to teach science more

plans that come with practical experiments,

fully mapped against the National Curriculum.

confidently is at the core of our unique science curriculum teaching platform. Designed for children

aged 4-14 years, we provide teachers and schools with access to more than 700 online science lesson

worksheets and assessment for learning activities



Teaching - C Regular and safe use of up-to-date resources.

Key need: science resources need to be relevant, accessible and of high quality. To engage children in science through quality texts and the outdoors.

Reference date on development log:

28.10.21 29.10.21 07.12.21 08.12.21



During PSQM

Science resources cupboard. Sept 2021.





resources.

Impact



Audit of all current working

@STEMclubs finding facts about electricity on #WorldBookDay 🚆 and reading recipes to create electric dough! 🍸 @Riverside Pri

4-48 PM · Mar 3, 2022 · Twitter for iPad

To widen research skills from the usual 'Google search,' the Science Squad created a bank of must have science texts that we distributed to all classes ahead of their next topic. We now have a science library in each class where children can access secondary resources to gain information.



From the audit we were able to identify items that needed replacing, replenishing or missing. They were ordered where needed from teacher feedback.

Items are grouped and displayed so that they are easily retrieved and maintained.

Riverside Bluebells @RPS_Bluebells - Mar 14 Bluebells had a special visit from our very own Mr Egan today to learn about allotments. They then had the opportunity to plant their own vegetables so we can watch throughout the season as they begin to grow into a sustainable food source! @RPS Bluebells #riversidesciencesquad













Learning - A

Children are taught to

use different enquiry

scientific questions

around them, using

Key need: Enquiry skills

and embedded from an

need to be developed

Reference date on

development log:

types to answer

about the world

scientific enquiry

skills.

early age.

Pre-PSQM





We have been so excited today to learn about life cycles. We were astonished to see a baby lamb and a baby calf being born 🙂 😍 😍 🐁 🕚 #riversidesciencesquad @NFUEducation



Children prepared questions for farmers about animals and life cycles, using what they have learnt already.

Introduction of the 'I wonder wall?' encouraging children to ask questions throughout the topics. Developing science enquiry skills.





Riverside Otters @RPS Otters · Mar 15

Our book this half term is Oliver's Vegetables. Today we went into our allotment and planted our very own onions. We can't wait to take care of them and watch them grow. @Riverside_Pri #RiversideScienceSquad #BSW22



Using quality story books to develop questioning that they can later have answered by experts during outdoor learning.











What is this



15.03.22





Learning - C The importance of, and strategies for, developing all children's science capital.

Key need: science capital needs to be embedded and celebrated.

Reference date on development log:

25.01.22	
11.03.22	
14.03.22	
15.03.22	
18.03.22	
22.03.22	
04.04.22	
15.05.22	

Pre-PSQM During PSQM

> 'We would like to have real life people in to show us how they have used science to get really good jobs.' Science Squad member - Sept

Impact

Teachers are encouraged to bring an aspect of science capital to every topic. Whether through a specialist, off site visit or online tools.

Durin	g this unit you will hear fro	om the following industry experts:
	Name	Job Title
1.	Jo Boocock	Infrastructure Maintenance Delivery
2.	Danny Hawkins	Facilities Delivery Manager
3.	Rory Dickerson	Senior Engineer
4.	Mullai Sathiyanarayanan	CAD-GIS Coordinator
5.	Vineet Bhamra	Signalling Project Engineer
6.	Jane Byers-Woods	Assistant Project Manager
٢	Riverside Kingfishers @RPS_Kingfishers	'I now know how

to save someone Check for danger Response "HELLO!" who might be in trouble.' Y6 child. Airway - all clear

Call for help

Breathing CPR

Vital learning today with @MSE_Schools @MerPolWirral #MiniPathfinder @Riverside Pri



Developing Experts includes videos from professionals in EVERY lesson. This gives an insight to careers and skills developed through science.

'I would love to be a Dr when I'm older. Listening to the paramedic was so interesting and I love science' Y5 child.

As part of our inspirational speaker series the children loved hearing Mrs Wisbey talk about her job as a paramedic saving lives!





Riverside Conkers @RPS_Conkers · Mar 18

Monica kindly visited us with her lovely guide dog Teri. We have learnt about how guide dogs help to keep people safe that have limited vision. We got to ask lots of questions and even got to have a stroke. 1/16 Thank you so much! #riversidesciencesquad @Riverside Pri @guidedogs



Thea said this was her favourite lesson today and she loves learning about animals because she wants to be a vet 🥨 🦌



17. 1

Parents comments on Twitter highlight they have noticed the importance of science capital in the classroom.



Wider Opportunities - A Cross-curricular

planning that links science to other areas of learning.

Key need: science to be included across the curriculum subjects.

Reference date on development log:

18.11.21	
22.11.21	
01.12.21	
05.01.22	
27.01.22	



Pre-PSQM

During PSQM Impact

Unclear guidance on incorporating science in other lessons.

Unit summary

This unit gives learners the opportunity to star-gaze by learning more about the earth and space. Starting on earth and understanding our position in the solar system, before expanding out to the moon, the solar system and exploring the Big Bang theory, our unit on Earth and Space covers all the requirements of the National Curriculum programme of study. Opportunities within this unit include building a solar system model, taking part in games and role-plays and measuring gravitational force.

New scheme clearly states where science can be taught within other areas of the curriculum..



Geography / current news



Riverside Willows PRPS Willows

The Eco Warriors in Willows are sharing ways to look after our planet. Don't ask how many times people have pressed that switch expecting something to happen on the cardboard telly! #BSW22 #RiversideScienceSquad @Riverside Pri #AlwaysARiversider



Riverside Acorns @RPS_Acorns - Dec 8, 2021 Morning and Afternoon Nursery have loved retelling the Christmas story and constructing a stable for baby Jesus 👼 @Riverside_Pri

@LiteracvCountst English

Embedding evolution in science through English. What a lovely book this is

by @sabina_. #riversidesciencesquad #BAW22 @Riverside_Pri

'Studying Darwin in English is so much easier now that I know more about him from science. I don't have to do as much research as we have already done it.' Year 6 child

Riverside Conkers @RPS Conkers

Yesterday year 1 learnt some new vocabulary; opaque and transparent. We then found things in our classroom that were opague and transparent and abelled them for others to see.



It is now clear to see science in every area of the curriculum. It is evident in books, on Twitter and from talking to children.



Computing

Well done to our super #STEMclub this week who have used @purpleMash 2Design and Make to design lovely hedgehog habitats. Well done! @Riverside Pri #RiversideScienceSquad



4:23 PM - Feb 3, 2022 - Twitter for iPad

Riverside Otters @RPS_Otters - Jan 21 We are learning all about how animals adapt in the winter. Look at this superb picture of a butterfly migrating. @Riverside_Pri









Riverside Kingfishers @RPS_Kingfishers - Mar 14



Wider Opportunities - B Provision of a variety of opportunities that deepen and extend learning.

Key need: science club to challenge greater depth, pupil premium pupils.

Reference date on development log:

18.11.21 22.11.21 01.12.21 05.01.22 27.01.22

Previously, science had little profile and was not celebrated in the way it should. There were no additional opportunities for pupils to be challenged outside the science lesson.

During PSQM Impact

Riverside Primary @Riverside Pri - Nov 12, 2021 Meet our new #RiversideScienceSquad We learn about the world around us that's for sure. Describing, looking at experiments and more. Knowing facts and then researching, questioning and then exploring. We are scientists at Riverside for sure. 🥜 🖉 🥌 🛬 🚽



Creation of The Science Squad. To enhance pupil voice and encourage enthusiasm for the core subject.

imary



The Riverside Reporter

Feature in the weekly newsletter

Lunchtimes have been a joy with so many great activities – there really is something for everyone. A BIG SHOUT out to Miss Jackson and the play leaders for making it such a happy time. It has been an absolute pleasure to see all of the wonderful, exciting learning that has been happening. Here are just some of the highlights ...

We Are Scientists at Riverside That's For Sure!

Continuing on from Science week, the whole school took part in one jam-packed day enjoying exciting experiments and activities when we were visited by Stem Science on Tuesday. Mrs Weatherall and Mrs Ellison planned such a fun day and we explored, questioned and questioned some more! Just look at what immersing yourself in science looks like! Click here. Here.

The ScienceSquad then continued their investigating... chasing rainbows! Click here.

Riverside Primary @Riverside Pri · Feb 10 It was a cold one tonight at #STEMclub making Hedghog habitats. We recycled some old boxes and camouflaged with Christmas tree cuttings. Inside is cozy and warm for them filled with straw and cat food as a snack. Hope some hedgehogs come stay at Hog Hotel #RiversideScienceSquad



A retweet and comment by Paul Strurgess (tallest man) himself! Got the Conkers going bonkers.

'STEM club is so interesting. We cover all different topics like: making habitats, planting seeds, green screen, cookery, electricity and so much more. I love

it, it is the best after school club I've been to' Year 3 child.

we have learnt about the UK's tallest man opaulsturgess and measured ourself next to a chalk version on the playground and compared his height to ours. We also put ourselves in height order.





Paul Sturgess @paulaturgesa · Nov 17, 202

eplying to PRPS Conkern

Love this! Tell your class I say Hi!!

Home challenges

@Riverside Pri #riversidesciencesquad ollys elf eddie claimed up a pile of presents he used as a ladder to get back on the Christmas tree



@Riverside Pri

Amazing Archie so glad LFC Teddy made it back on to the stair. Excellent use of recycling and some very clever engineering @allaboutstem #riversidesciencesquad

6 John Weatherall @jayjayweathers - Dec 1, 2021

Elf's friend LFC teddy fell off the stair! Archie (Larks) built him a pole to climb back up from recycled tubes. #RiversideScienceSquad @Riverside Pri @RPS_Larks



Oh no! Poor Elf is in trouble! Use your super science skills to help him out? Complete your challenge at nome and take lots of photos. Don't forget to Tweet us our results using — #Riverside eone at home help you out? @allaboutster





STEM day – theme GROWTH

Wider Opportunities -

Pre-PSQM

Provision of a variety of opportunities that deepen and extend learning.

Key need: Engage parents/carers and outside links to enrich science learning.

Reference date on development log:

22.03.22



We made British science week a priority this year with bids placed to secure funding for the activities planned. The aim was to develop the profile and excite the children in science.

'Thank you. You have really inspired my boy. He doesn't enjoy school but today he came home excited, telling me all about your science day' Year 4 parent.

During PSQM

Impact





Riverside Bluebells @RPS Bluebells

What a fantastic time Year 2 had in their science workshop today! We learned all about growth and now have a class full of budding scientists. @Riverside_Pri #riversidesciencesquad



'That was unbelievable! I want to be a scientist' – Year 2 child

British science week has often been overlooked or missed at Riverside. Having an outside agency come and deliver expert lessons was unheard of.



Teaching - C Regular and safe use of up-to-date resources.

Key need: To engage children in science through the outdoor learning.

Reference date on development log:

28.10.21 29.10.21 07.12.21 08.12.21



During PSQM

Pre-PSQM



Ks1 have had the most amazing experience at the farm today. We used the @Riverside Pri

Impact





The planting begins... finding out what our potatoes need to grow in abundance. @Riverside Pri #AlwaysARiversider #RiversideScienceSquad





The

Willows

inclusion

Riverside Kingfishers @RPS_Kingfishers · Mar 24 Chasing rainbows 🌈 or refracting white light to show the spectrums of colour that makes up light? What a great investigation in the 👾 #RiversideScienceSquad @Riverside_Pri



prominent in the EYFS teaching, however, it is not constant within KS1 and KS2 teaching. A forest garden is provided, but only used for topics such as animals including

humans and the environment around us.

Outdoor learning is very

'we would like to use the forest garden more in our lessons rather than worksheets and videos' Science Squad KS2 member

The new scheme signposts where outdoor learning can be delivered. Forest and beach school experts on hand to give advice. Inclusion base to incorporate more outdoor learning for engagement and behavioural learning.

Outdoor learning is now more prominently used within teaching throughout the school. The forest garden is being used more purposefully as well as other areas of the school and surrounding area. Higher up the school are now using the local area to its full potential with the Mersey river being on our doorstep and an urban farm just a short bus ride away.



Subject Leadership - A Clear vision for science, created and implemented by teachers and children, through principles for teaching and learning.

Key need: pupil voice to be heard and acted upon.

Reference date on development log:

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18.02.22
04.04.22

Pre-PSQM During PSQM

'I look forward to science every week. Mrs Nicolls makes it fun and interesting. We have looked at lots of different things. My favourite has been the animals and bugs' Year 1 child

Impact



Pre-PSQM there were no science clubs, science council or monitoring of any kind regarding pupil voice

'We love going outside to learn about the world around us. We even go out in the rain! My favourite thing was planting seeds and watching them grow' Nursery child New science council formed (The Science Squad). Pupil surveys carried out at the start, midway and end of the year. Pupils spoke directly to governors, head and deputy and a local authority monitoring session about science.

'Being a part of the Science Squad has made me feel important. I have been asked what my opinions are and how we can make science better at school. We even got to share our ideas with Mrs Lahive (head teacher) and some important people!' Year 5 child. Now pupils feel they have more involvement in the design and delivery of science at Riverside. They feel valued and their work is celebrated. Outcome from meetings with governors, head and local authority showed that children enjoy and are enthusiastic about science and that they feel they have learnt a lot more.

I've loved having experts in to show us what they do in their work. We've heard from an audiologist, electrician, paediatric nurse and a paramedic. My favourite was the audiologist' Year 4 child.

'Bringing in specialists has really developed the children's science capital. This wasn't something we were encouraged to do before' Year 4 teacher.



Celebration of science at Riverside Primary

Head teacher

through to KS2.'

Governor

Impact

'I am so proud of where science is now to where

it began back in September. Kate has worked

tirelessly to make it a success in all areas. The

profile, enthusiasm and engagement from

children is evident in books, pupil voice and

when visiting lessons. Pupils have demonstrated

a new love of learning in science, this is down to

newly formed Science Squad Council. I very much

how it is communicated with society through

Twitter, the after school science club and the

look forward to see what next year brings.'

'Kate is an inspirational subject leader who

She clearly articulates her subject to parents, governors and colleagues, whilst ensuring that the pupil learning and scientific enquiry are the core drivers of her curriculum intent. Riverside now has a well-sequenced, challenging and research based

demonstrates innovative practice within science.

science curriculum which begins in EYFS and builds

During PSQM

'Being able to see what my child has been doing in school this year has been great. We have been able to discuss learning and topics he's been covering. Also being able to join in on home holiday challenges has been fun, sharing his work and getting replies really encourages my child' Parent comment

Pre-PSQM

Nikki Humphreys @NikkiGoode89 - Dec 5, 2021 ... @Riverside_Pri #RiversideScienceSquad @RPS_Otters Jack tested out different materials to see what would be waterproof to make his umbrella for Santa sleigh to keep the presents dry



Science had little profile, little excitement or clear structure. We followed a complex over-prescribed scheme and teachers had little CPD to deliver the subject to its full potential. New scheme introduced. Teacher and pupil voice designed the principles and vision. Engagement and profile is developed through Twitter social media.

'Our science curriculum has been completely transformed this year by Kate and her outstanding subject leadership. The profile of science has grown significantly amongst the children, teachers and parents and is now a firm favourite.' Deputy head teacher

Wow the elf science challenges are coming in thick and fast in Year 2, well done! **#riversidesciencesquad**



11:03 AM - Dec 7, 2021 - Twitter for iPad



Riverside Primary @Riverside_Pri · Dec 7, 2021 Replying to @RPS_Bluebells

> Oh they are very impressive. We love the variety and skills that have been used. Super STEM skills @allaboutstem #deSTEMber

'The highlight has been the ability to see, share and celebrate everyone's success over Twitter. As a full time class teacher, it is difficult to know and join in on other classes activities. However, to be able to see it shared with everyone via social media means that I feel so much more involved – being able to comment or revel in an achievement with a child on the schoolyard, or a parent at home time has been the best aspect of this year.' K. Weatherall Science Lead

Riverside Larks @RPS_Larks · Dec 8, 2021 · · The Larks created food chains and learnt about producers and consumers. #MiniScientists #RiversideScienceSquad @Riverside_Pri



Using #RiversideScienceSquad on Twitter has allowed easy access to all the learning going on throughout the school and at home. Teachers, pupils (present and past) and more importantly parents/carers have been involved in science at Riverside. Parents/carers have been able to comment and share the excitement with school via this means.