



SLb and SLc. Beginning to see improvement in teaching and learning through monitoring and sharing of best practice.

Tb and Lb- Introducing effective assessment for learning.

Staff have been introduced to and trained to use technology to formatively assess children. Then adapt their planning to allow all children to access science.

Formative assessment

Pre, PSQM we didn't use lowrisk guizzes or class discussion to assess the children. We would just read their science write ups and make a judgement.

Snap Science has given me the structure and confidence I have needed to find the enjoyment in teaching science again. KS1 teacher.

Now, we have the I-pads I feel like a scientist as I can share my knowledge by talking into my presentations as I am not a very good writer. Year 4 child

Autumn leaves

Formative assessment

Explorify has evolved talk around science. Every child can articulate themselves and are doing it with a smile on their face. Ks2 teaching assistant

> Reception have really enjoyed starting their Explorify journey. They love coming up with their own opinions. EYFS teacher.

Fit for purpose (explorify)

Olivia - "If you use a chocolate teapot and you put hot water in it, it would start melting."

Bella - "If you drop glass or drop it, it will break. A normal

hammer won't break when you use it."

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Oscar - "If you needed to smash a rock and you use a glass
hammer, the glass hammer will fall to pieces."
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Khushi - "If you wore the wooden shoe, it wouldn't be comfy like normal shoe as it is hard, they are comfortable and soft inside."

Ayub - "If you use a chocolate teapot, the handle will fall off if you pick it up because chocolate can break easily, it isn't very strong."

"What if all your clothes were shiny?"

Oliver - "If you wore shiny clothes, they would shine in people's eyes and they would be blinded."

SL is going to

introduce TAP

assessment as an

assessment tool

for enquiry

skills.

Explorify has revolutionised my teaching. My children could do it all day, they love it! The way they articulate their understanding makes me so proud. Every child can access it on their own level. As a teacher it is a fun way to see if they clearly understand. KS1 teacher.

Fit for purpose?

A brick water both

would be too heavy

-Lillia. it wouldn't be

nice to drink from

Save ⊘ Mark as done?

Classroom viev

Formative assessment

"What if all your clothes were shiny?"

Oliver - "If you wore shiny clothes, they would shine in people's eyes and they would be blinded."

Lillia- paper scissors Wouldn't work they would be too flexible

Getting started with outdoor learning SLa, Ta, Tb, Tc, La and Lc

Nursery, have been developing the allotment area. Growing herbs and vegetables.

Pre-PSQM, learning was done mainly in the classroom. Very heavily depended on power points and worksheets.

> Year 1 doing an observational wild flower hunt.

Now I have access to the PLAN assessment documents I can replica good lessons that are active and engaging. KS1

Or-

PLAN

teacher.

Snap science was purchased which was more in line with our science vision and principles.

Share

Primary

Science

We were looking for science using our senses.

is planned into the medium term plans. So

children have explicit opportunities to learn

outdoors.

SL developed staff through PLAN looking at outdoor additional learning opportunities.

Science is more fun now as teachers ask us what we would

My child looks forward to outdoor learning every week. It is all they talk about. Parent voice

Woa. We are continuing to improve our science links with reading.

Woo-Before PSQM, there were KS2 Reading Curriculum links with most Science topics. This introduced children to key vocabulary, scientists and science outside the classroom.

Whole class reading has been a key factor in increasing children's scientific vocabulary. It is really useful for children's retention to pre-teach the vocabulary that the children then use confidentially within science lessons.

Vocabulary Check

- Now he's lauded by environmentalists
- he then built a <u>rudimentary</u> wooden tower
- equally <u>innovative</u> and <u>inventive</u> people
- Water <u>distillation</u> process

develop strong links with maths to develop statistic skills.

Moth hook

Increased science capital, reluctant readers showing interest in reading science books for pleasure.

Children have hundreds of science

books at the tip of their fingertips through the app EPIC! Children in Year 3 and 4 all have ipads and are being exposed to real life science.

I love non-fiction, it is great to learn facts. KS2 child.

'Tilting at windmills: the boy who harnessed the wind'

Malawian teenager William Kamkwamba built a generator out of a bicycle and tractor fan. Now he's lauded by <u>environmentalists.-</u> John Vidal Sat 3 Oct 2009

Understanding about

real life science in the

world that is relatable.

Back in 2001 William Kamkwamba was a semieducated 14-year-old Malawian who had been forced to drop out of secondary school when, during a terrible drought, his parents could no longer pay for him to go. This week, he has been in California and Chicago on a whirlwind book tour, hailed as a "genius" and appeared on

TV chat shows. He has been the toast of international technology conferences, lauded by Al Gore and environmentalists and shared a stage with Bono and Google co-founder

g a book about his life, with journalist Bryan Mealer.

g to school because his family could no longer afford rary, read up on his science, found a DIY guide to about trying to build it. Using a tractor fan, shock

Wob –We are improving our local links with scientist through events.

Pre-PSQM, we rarely got in visitors to enrich the science curriculum.

Leeds Beekeepers' Association came into school. Through this children observed a real hive, created a bee garden and a bee hotel.

> Children really enjoyed seeing the bees. They couldn't believe the amount. KS2 teacher.

Children researched bee friendly flowers and created designs for our bee garden. Then the children created the garden.

Flowers for bees!

Children developed their observational skills through a real-life bee hive. Children were emersed in high-level scientific vocabulary from a passionate scientists.

Children entered a competition to create the new bee garden in school. Most children entered the competition and then the children created the bee garden.

Inspired provision to create their own bees.

Each year group worked on their own layer of the bee hotel. This created another science environment in our school for future

Wob and LC –Countryside Days Improving children's opportunities to extend their learning in alternative settings and increase science capital

Countryside Days offers Key Stage Two children the opportunity to experience all aspects of food, farming, the countryside and healthy living. The day involved a variety of workshops and arena displays including rural crafts, birds of prey, farm animals, the legendary Sheep Show, pond dipping and many more.

Countryside Day: Tuesday 14th June 2022

<u> Timetable - GROUP 2</u>

10.00	Rapeseed- from field to fork	Red zone	Hall 1- R42
10.40	Can you Rethink Food and be a responsible consumer and producer?	Red zone	Hall 1- R56
11.20	Farm animal arena	Purple zone	Outside
12.40	Classification and identification	Blue zone	Hall 1- B10
1.20	Free		
2.00	Sheep Show	Outside	
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The children learned about Yorkshire agriculture and how food arrives on the plate.

I had the best day, I just loved learning about the animals and all the food! Who knew Yorkshire was so great- KS2 child

stronger links to the local secondary school.

SL to assist

to book more

visits outside of school to

deepen and

extend

science learning.

SL would like to make

The children were emersed in Yorkshire agriculture, I believe it really increased their science capital today. KS2 teacher

