Subject leader impact

Presentation to Staff and Governors 2022
Jen Serle

Science intent

"Enabling life in all its fullness"

"I came that you may have life, life in all its fullness" (John10:10)

Our **Core Christian values** for our school are: *Perseverance, Creativity, Trust and Friendship.*

The most important thing about Science is being curious

We observe

We question

We hypothesise and investigate

And we gain knowledge of the workings of the world around us

But the most important thing about Science is being curious

"Equipped with his five senses, man explores the universe around him and calls the adventure Science."

Edwin Powell Hubble

My intent last year was to…

raise the standard of Science teaching across the school and increase the number of children achieving mastery (GD) in science.

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Provision

- detailed curriculum and progression maps
- emphasis on increasing the inclusion of 'working scientifically' in lessons
- knowledge mats
- purposeful feedback following monitoring activities
- the continued use and availability of high quality teaching resources online – Tigtag and Explorify

Impact

From 2021 end of year data

- more children at GD, fewer at BARE
- more children with SEND at ARE.

Evidence

2021 report data

SCIENCE (2020 REPORTS)		
Y 1 - 6 (185)	Total	%
BARE	14	8%
ARE	148	80%
GD	23	12%

SCIENCE (2021 REPORTS)		
Y 1 - 6 (187)	Total	%
BARE	10	5%
ARE	144	77%
GD	33	18%

Note: Assessment of Mastery in Science shown as GD.

More children at GD, fewer at BARE.

SCIENCE (2020 REPORTS)		
SEND (25)	Total	%
BARE	9	36%
ARE	15	60%
GD	1	4%

SCIENCE (2020 REPORTS)		
PPG (18)	Total	%
BARE	2	11%
ARE	14	78%
GD	2	11%

SCIENCE (2021 REPORTS)		
SEND (30)	Total	%
BARE	12	36%
ARE	21	64%
GD	0	0%

SCIENCE (2021 REPORTS)		
PPG (8)	Total	%
BARE	2	16%
ARE	8	67%
GD	2	16%

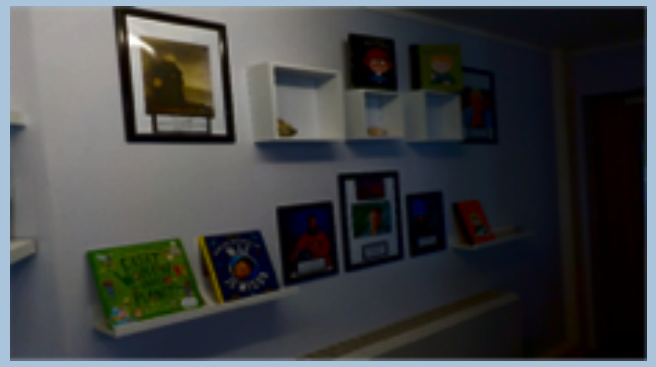
More children with SEND at ARE.
More children with PP at GD as a %.

I am hoping this trend will continue as I have seen good progress in children's learning during this year 21/22. In particular the focus on the lowest 20% has enabled me to be optimistic that there will be improvements again this year.

My intent last year was to…

enhance the provision of learning about, and celebrating 'real life' scientists and their work with an emphasis on diversity.

Provision



- the inclusion of the requirement to specifically teach about diverse real life scientists on curriculum provision maps
- an accessible, informative display including children's learning, books and information about careers in science.
- a variety of high quality books
- an increased awareness amongst staff

Impact

- increased teaching and learning about real life scientists

Evidence

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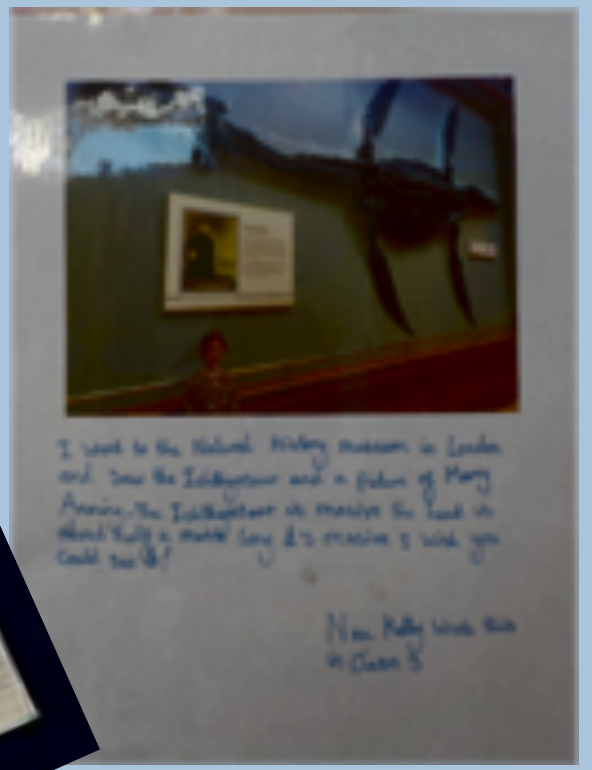
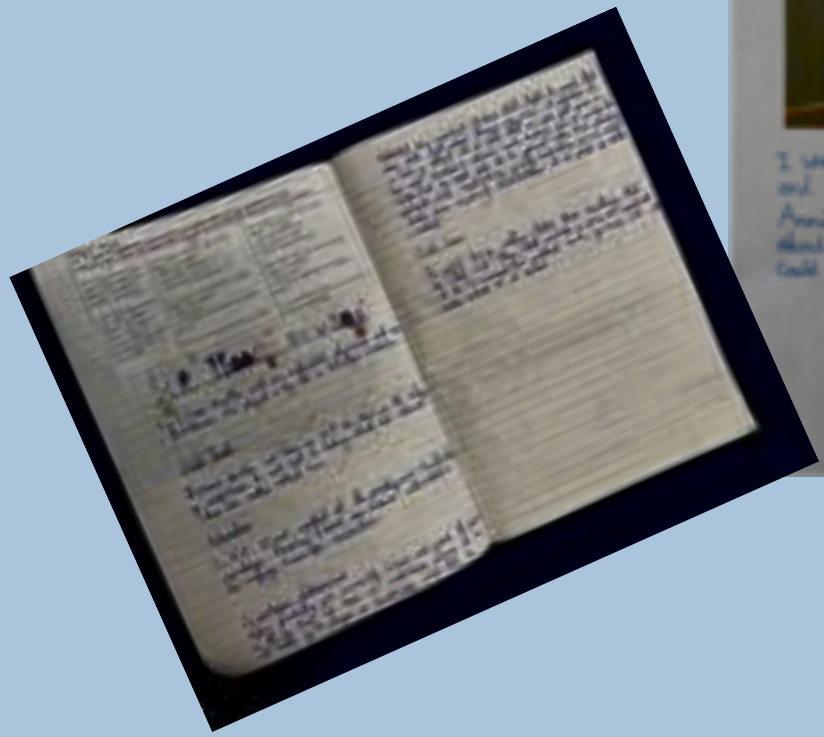
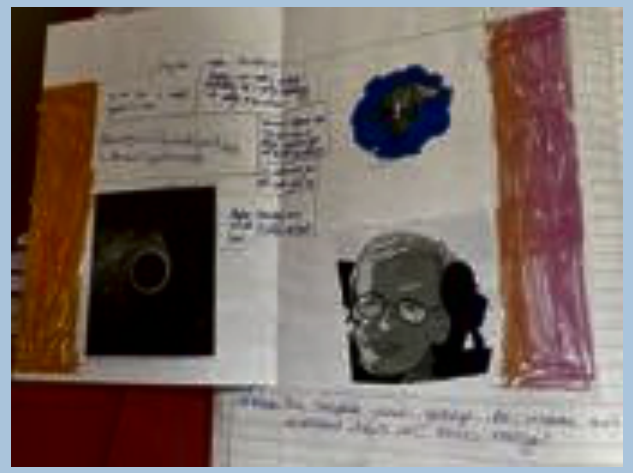


- examples of work in books across the year groups.
- pupils referencing their learning on family trips – Mary Anning at the Natural History Museum
- overheard discussions near display about the scientists featured.





My intent last year was to…

begin to develop and embed the working scientifically aspect of the curriculum.

Quick reminder!

One of the aims of the National Curriculum for Science is to:

develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them

The nature, processes and methods of science

'Working scientifically' specifies the understanding of the nature, processes and methods of science for each year group. It should not be taught as a separate strand....

... focusing on the **key features of scientific enquiry**, so that pupils learn to use a variety of approaches to answer relevant scientific questions.

....types of scientific enquiry should include: observing over time; pattern seeking; identifying, classifying and grouping; comparative and fair testing; and researching using secondary sources.

Pupils should seek answers to questions through collecting, analysing and presenting data.

Provision

- more guidance on provision maps including progressive skills.

- zoom presentation given June 30th 2021 with information and guidance. This can be accessed on staff server Subject Leaders of Shine Curriculum 2021 - science week 2022- science- zoom working scientifically 30 June

- Science week 2022 focus being on using scientific enquiry and skills appropriate to each year group.

Impact

- children are learning and using these skills in more and more science lessons

Evidence

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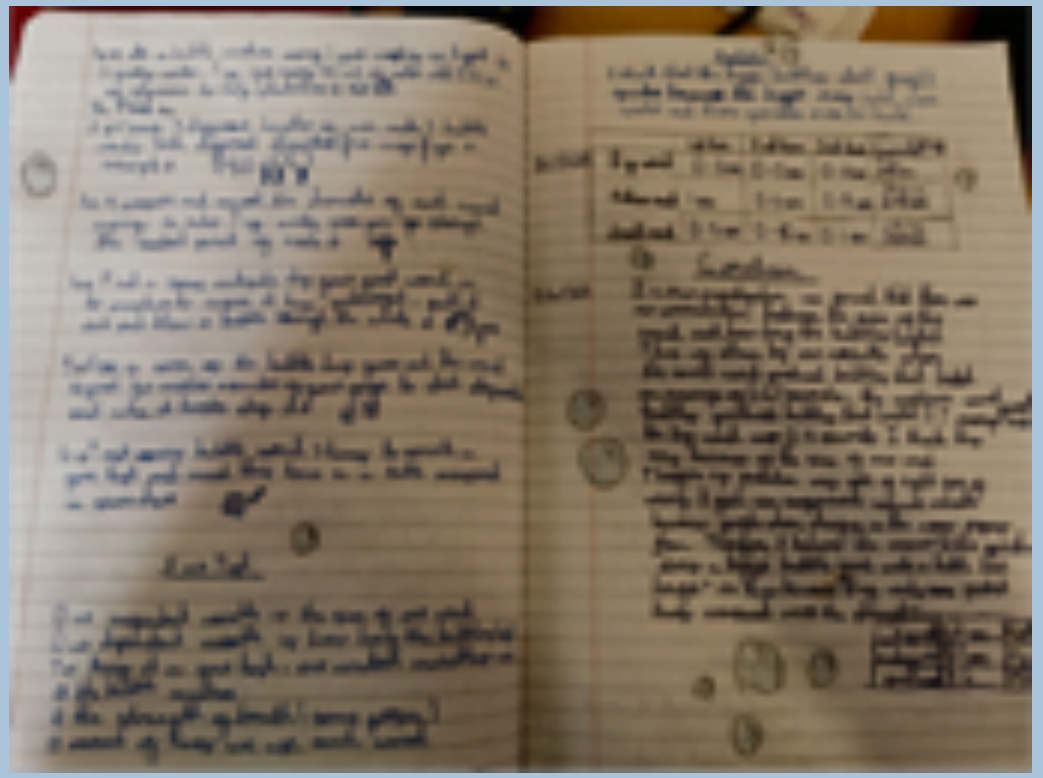
- examples of work in books
- observations of practical investigations
- photos from classes showing day to day lesson activities
- science week activities
- anecdotal evidence from staff sharing successful lesson outcomes



Intent for 2022/23

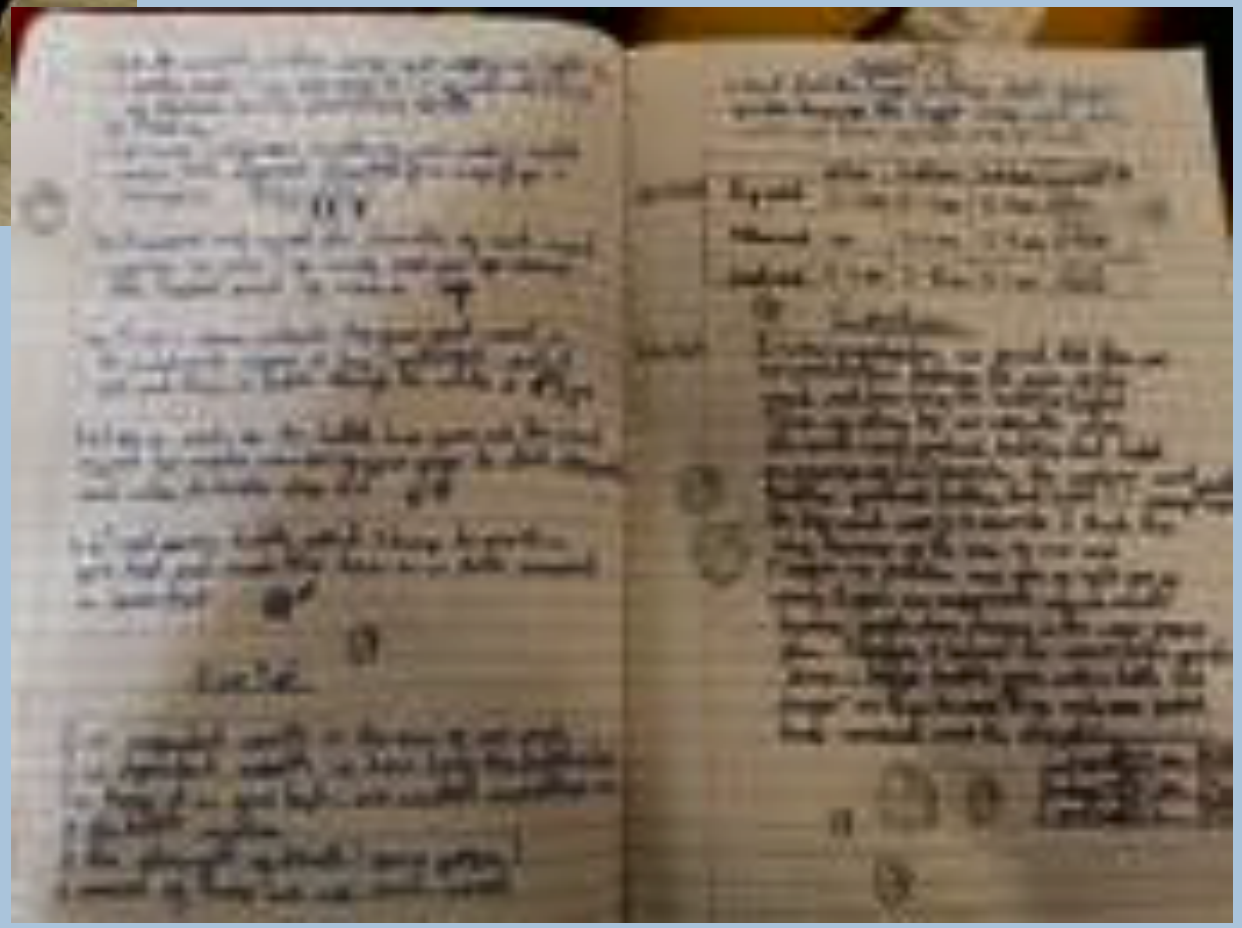
- My primary focus for next year, along with building on this year's successes, is to achieve the PSQM for our school. I am very much looking forward to starting in September and giving the process the time and priority it deserves.

SPARE SLIDES

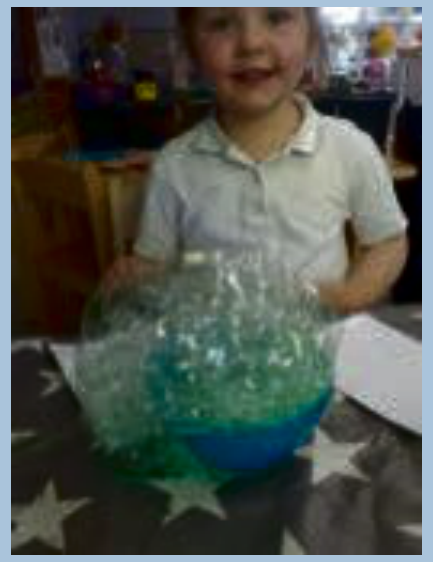
As a result of last year's data … drill down data?

Any evidence of impact through progress for any specific lowest 20% children?

Science week activities
KS2



Science week activities
EYFS/KS1

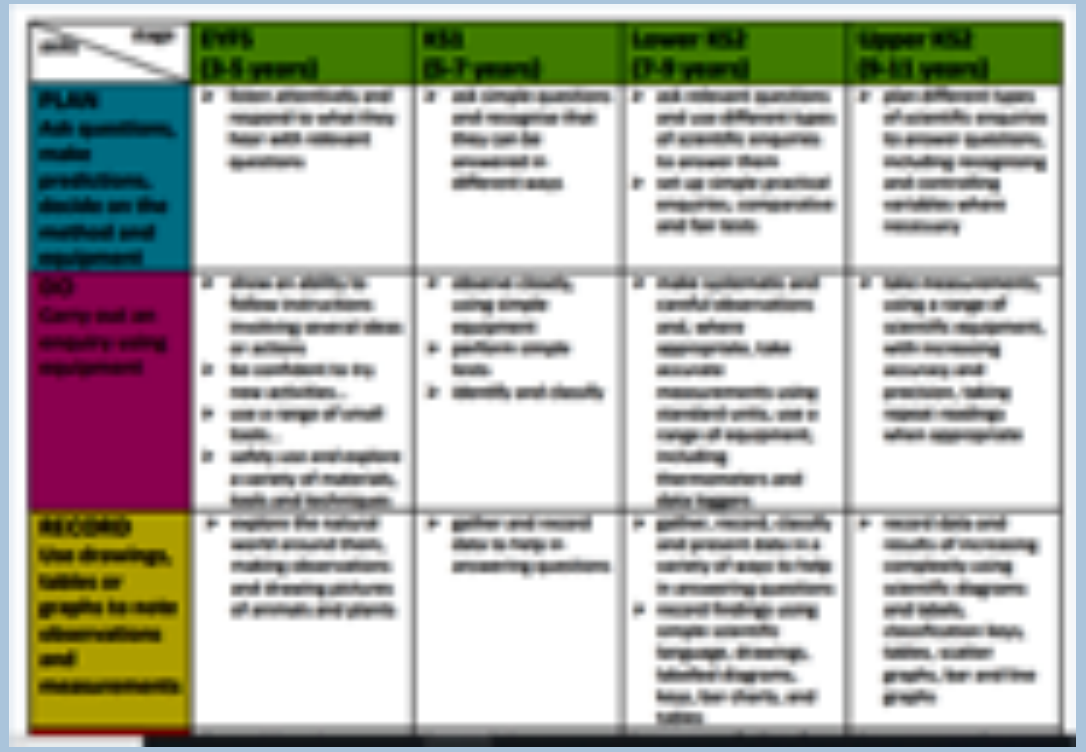


https://explorify.uk/en/activities/zoom-in-zoom-out/spring-clean

Using bubble mixture they had made, children were asked to explore …

the bubble that floats highest, travels furthest, lasts longest or is simply the biggest.

Their investigations linked to the working scientifically skills specific to their year group.



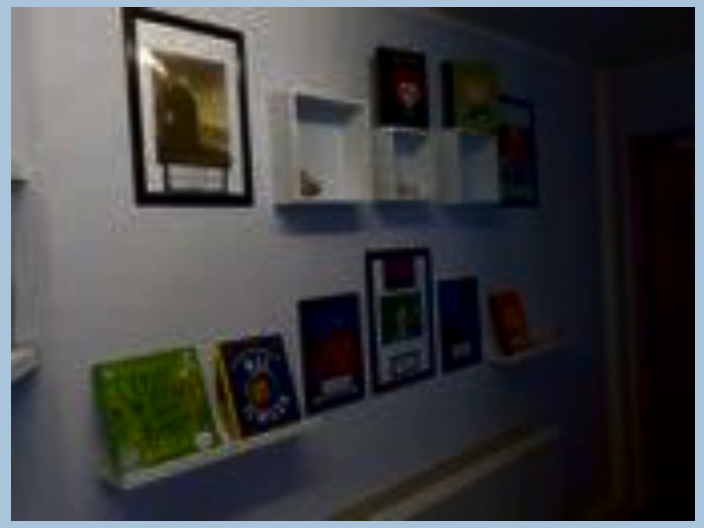


Photo of display, books and egs of children's work

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