Science Curriculum Impact Statement 2024 -2025

Overall synopsis / developments

Science continues to be taught and planned through the use of PLAN long and medium term plans. Teachers use these documents to then plan individual lessons.

Substantive and disciplinary knowledge progressions have been completed, which help teachers to further target the key learning that children need to know. These will also be used to enhance subject monitoring as subject leads will be able to check against them to see what has been learnt and retained during pupil conferencing.

Working scientifically continues to be a focus as the children and staff need to be more aware of when they are working scientifically and what areas of this they are working on. Some classroom introduced the use of PSTT Taps wheel which shows the different working scientifically areas (Ask Qs and plan enquiry, set-up enquiry, observe and measure, record, interpret and report, evaluate) to help children (and staff) better identify when they have worked on these. The Taps wheels will be used in all classrooms from next academic year.

Inclusion

At Longshaw, we use a variety of teaching and learning styles in Science lessons.
Our principal aim is to develop all children's substantive and disciplinary knowledge in science. We aim to do this by:
- set common tasks that are open-ended and can have a variety of responses.
- provide a range of challenges based on the same objective so all children can access the curriculum.
- using additional adults to support the work of individual children or small groups including topic specialists.

Subject leadership – CPD, Monitoring and Evaluation

Subject leads have updated their curriculum area so that policy, overview, 3Is, knowledge organisers, substantive and disciplinary knowledge are all up to date.

As part of our professional development, Working Scientifically training was delivered by Stacey Reid on 12th November 2024. This session, held in collaboration with our cluster group, was attended by teaching staff across each year group and provided valuable strategies to embed scientific enquiry more effectively across the curriculum.

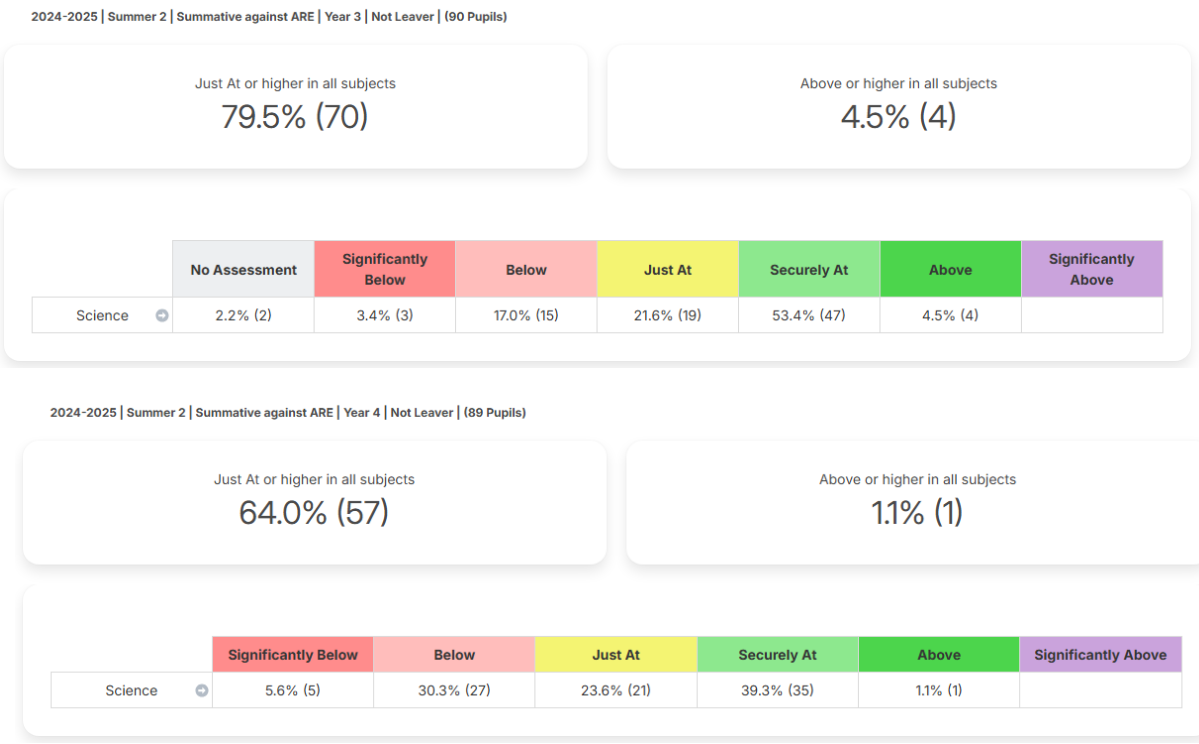
Highlights / Cultural Capital

Visitors
Adrian Bowden's travelling science show for all year groups (Yr6 Electricity, Yr5 Marvellous Materials , Yr4 Light & Sound , Yr3 Fantastic Forces)

Trips
MOSI Yr6
Martin Mere Yr4
UCLAN Science Festival Yr5

Subject leads undertook their first monitoring meeting with the new science ambassadors. Book looks for all year groups were undertaken. These were positive and showed a good level of progression through school. Children's understanding of key vocabulary and working scientifically strands still needs to improve.	**Pupil Voice (including ambassadors)** The first ambassador meeting was well-received by the children. The session was positive, with children showing interest and enthusiasm when talking about Science. Most children were able to take part in discussions about units they had studied, both this year and in previous years. They were able to recall a range of key substantive knowledge across the different topics covered. However, their understanding of scientific vocabulary and the various strands within working scientifically was less secure and remains an area for development.

Data overview



2024-2025 | Summer 2 | Summative against ARE | Year 3 | Not Leaver | (90 Pupils)

Just At or higher in all subjects
79.5% (70)

Above or higher in all subjects
4.5% (4)

	No Assessment	Significantly Below	Below	Just At	Securely At	Above	Significantly Above
Science	2.2% (2)	3.4% (3)	17.0% (15)	21.6% (19)	53.4% (47)	4.5% (4)	

2024-2025 | Summer 2 | Summative against ARE | Year 4 | Not Leaver | (89 Pupils)

Just At or higher in all subjects
64.0% (57)

Above or higher in all subjects
1.1% (1)

	Significantly Below	Below	Just At	Securely At	Above	Significantly Above
Science	5.6% (5)	30.3% (27)	23.6% (21)	39.3% (35)	1.1% (1)	

2024-2025 | Summer 2 | Summative against ARE | Year 5 | Not Leaver | (90 Pupils)

Just At or higher in all subjects
84.4% (76)

Above or higher in all subjects
7.8% (7)

	Significantly Below	Below	Just At	Securely At	Above	Significantly Above
Science		15.6% (14)	21.1% (19)	55.6% (50)	7.8% (7)	

2024-2025 | Summer 2 | Summative against ARE | Year 6 | Not Leaver | (85 Pupils)

Just At or higher in all subjects
80.7% (67)

Above or higher in all subjects
2.4% (2)

	No Assessment	Significantly Below	Below	Just At	Securely At	Above	Significantly Above
Science	2.4% (2)	2.4% (2)	16.9% (14)	44.6% (37)	33.7% (28)	2.4% (2)	