Subject Overview – 2022/23 – Layton Primary School

At Layton, we believe that learning takes place over time, resulting in a change in long term memory from Unconsciously incompetent to Unconsciously competent, and involves forgetting, revising, consolidating, extending and applying knowledge in a variety of contexts. To do this, children need to think deeply and critically about subject matter and engage with difficult concepts. Learning is, and should be, hard.



Impact

Intent

Children organise knowledge by concepts and categories.

Working

scientifically,

ask and

answer open-ended

questions

with a clear

progression

of skills of

enquiry.

Child led enquiry through collaboration with peers.

Teachers receive regularly, high-quality CPD.

Teachers and children develop subject-specific vocabulary orally and in writing. Children recording their scientific ideas in practical ways.

Implementation

Children have a deeper understanding of phenomena and concepts.

Children apply scientific knowledge to the local area and real life concepts.

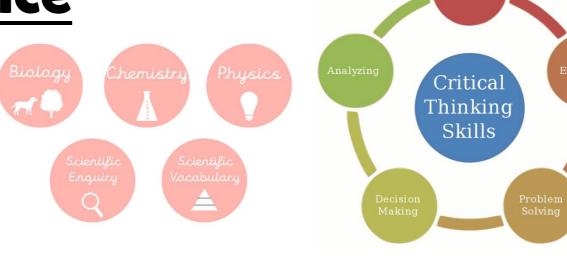
Children can problem-solve and this builds resilience within science and wider curriculum.

Science

Teachers feel more confident embedding science learning into the long-term memory.

Summative Children are assessments curious and once per think critically half term to about current assess global enquiry scientific skills and events. knowledge.

We aim to ignite children's curiosity about the world around them whilst equipping them with the enquiry skills required to seek solutions to the questions they raise; in order to have a deeper understanding of the world around them. Children believe that they have a future in science and act as leaders, whilst teachers facilitate their learning.







Asking questions Making predictions Setting up tests





Measuring and



Recording data



communicating

results

discovering their own outcomes with lots of opportunity to work outdoors.

Children

can

make

links to

science across a

range of

subjects.

There is a

clear

progressio

n of

scientific

enquiry

skills

throughout

their time

at Layton.

Children

Children have access to high-quality fiction and non-fiction scientific texts through the science reading spine.

Trips and visits from experts to enhance cultural capital. Spaced learning/retrie val quizzes.

Children can apply data-handling skills within science.

Children want to pursue a career in science.

High quality feedback using process level, task level and self-regulatory questions.

Critical thinking question per week and one overarching halftermly question.

Learning substantive knowledge before disciplinary knowledge.