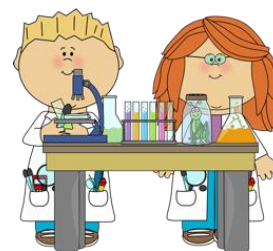




OUR LADY OF LOURDES CATHOLIC PRIMARY & NURSERY SCHOOL



School Subject Guidance for **SCIENCE** (2021/22)

Subject Leader: Miss Helen Townson

Vision and Mission

"We want our school to be a safe, secure and exciting place to learn and grow in Christ. A place where children, staff, families and governors work closely together to answer Christ's call."

Our Catholic School community works with a Christian purpose:

- To promote an enthusiasm for enjoyment of learning
- To provide a broad and well balanced curriculum
- To challenge children to reach their full potential
- To learn about God and his creation
- To answer Christ's call through our love for each other
- To foster in children independence and a sense of responsibility



"For you are precious in my eyes"
(Isaiah 43)

The overarching aim for Science in school is defined by the Science Curriculum Programmes Purpose of study. It states that:

"A high-quality science education provides the foundations for understanding the world through specific disciplines of biology, chemistry and physics. Science has changed our lives and is vital to the world's future prosperity, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. Through building up a body of key foundational knowledge and concepts, pupils should be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They should be encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes."

Curriculum

The delivery of Science follows a rolling programme, using the **Learning Challenge Curriculum** that encourages Scientific Enquiry through focused questions.



Planning Statement

All teachers should plan **sequences of learning** using the enquiry questions with an understanding of the strands that they are working towards. Each lesson **MUST** have a focus assessment strand,

which is then used as an assessment focus when marking. All work **MUST** display the learning objective of each session.



Timetable

Teachers plan for two weekly Science lessons of approximately **60 minutes each**.

Recording Learning



Group discussions and learning should be recorded in class **Floor Books**. Children should record thoughts and ideas and stick these in the Floor Book along side photographs taken when necessary. All staff are responsible to ensure this is recorded and work is annotated as required.

Children will record their own observations, results and findings within their own Science Book. All pieces of work **MUST** start with the date, in words, and the learning objective. Both **MUST** be underlined, in line with our Handwriting Policy.

Rulers are used to draw tables and label diagrams.

Resources

A variety of resource documents are available to support teachers in their planning of Science inc:

- PLAN Knowledge Matrices,
- PLAN Primary Science Supporting Assessment,
- Rising Stars Assessments
- Plan Bee units
- Explorify.



Many resources and scientific equipment can be found in the Resource Room.

Marking

Teachers should refer to the 'Effective Marking and Feedback Policy' for further information.

When verbal feed back is given to small groups, children's responses should be noted. There is no need for the teacher to provide a written comment as well, but they must indicate oral feedback was given.



All work **should** indicate the adult support given during the learning task.

Scientific vocabulary **MUST** be encouraged, and spellings corrected following appropriate methods as marked out in the Effective Marking and Feedback Policy.

Assessment for Learning & Record Keeping

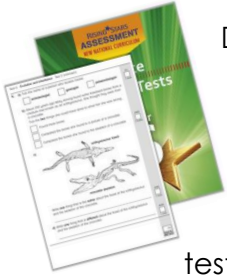
Teachers should refer to the 'Effective Assessment Policy' for further information.

What the children will learn **should** be clearly communicated to the class during each lesson as identified on teacher's plans.

At the end of a lesson, children should self-assess their work with the school traffic light system.

It is essential that teachers maintain a record of attainment against Key Learning which is on-going throughout all lessons.





Diagnostic tests **MUST** be completed at the start of each topic and placed in each child's Science book. This will feed in to gathering the children's "Seeds of Learning" which will be displayed on the class Learning Tree (using the acorn templates).

An assessment activity, along with Rising Stars mid-term and end of term tests **MUST** be completed at the end of a topic and placed in each child's Science book.

This process gathers information for the "Fruits of Learning" on your Learning Tree.

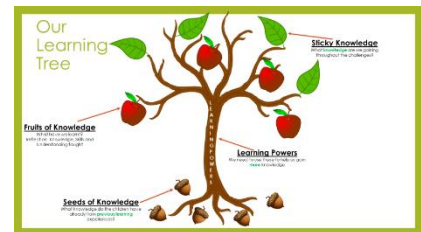
Rising Star trackers **MUST** be updated regularly by staff for tracking and monitoring progress.



Termly assessments are to be completed and recorded on iTrack. Any gaps looked at and worked upon during the following term to ensure that the children are reaching the end of year statements. This information is tracked by the Senior Leadership Team and Science Curriculum Leader.

Display (Our Learning Tree)

All classrooms will display the Learning Tree to show how children's learning is evolving throughout the theme. This will clearly show the question and the sticky knowledge that is gained as the unit is taught. The tree will always show a science question being developed throughout the term/half term.



Written by: Miss Helen Townson
Implementation: January 2022
Review: September 2022

