

Leintwardine Endowed CE Primary School Learning Journey Itinerary

'Letting Our Light Shine'

SUBJECT : Science

YEAR : A

TERM : Autumn 1

YEAR GROUPS : 3/4

Key Question : What is under our feet?

Previous Knowledge – We would expect children to already be able to:

Conduct simple tests.

With support, draw conclusions from a set of results.

How to sort objects by their characteristics.

END OF UNIT OBJECTIVES

Some children will not yet have met what is expected and will show that they are emerging because they can:

- Know there are three types of rocks which are formed in different ways.
- Know how to make careful observations
- Know the terms igneous, metamorphic and sedimentary.
- Know that fossils are found in rocks.
- Know why Mary Anning is an important historical figure.
- Know the basic components of soil.
- Can list some of the different properties of rocks.

Most children will show that they have reached the expected level because they can:

- Know there are three types of rocks and explain how they are formed.
- Know how to make careful observations
- Know how to group rocks by their properties and identify simple similarities and differences.
- Explain the difference between a bone and a fossil.
- Will be able to state the four different types of matter soils is composed of and how it is formed.
- Know the terms igneous, metamorphic and sedimentary.
- Know that fossils are found in rocks and explain the fossilisation process.
- Know why Mary Anning is an important historical figure.
- Can list the different properties of rocks.

Some children will have gone beyond the expected level and will show that they are exceeding because they can:

- Know there are three types of rocks and explain how they are formed.
- Know how to make careful observations
- Know how to group rocks by their properties and identify simple similarities and differences.
- Explain the difference between a bone and a fossil.
- Will be able to state the four different types of matter soils is composed of and how it is formed.
- Know the different types of fossils; mould and cast, replacement, whole body, trace, carbon and coprolite
- Know the terms igneous, metamorphic and sedimentary.
- Know that fossils are found in rocks and explain the fossilisation process.
- identify the importance of Mary Anning's work to the field of palaeontology
- Can list the different properties of rocks.

ASSESSMENT OPPORTUNITIES

End of unit assessment

Questioning during lesson

Work in books

ENRICHMENT OPPORTUNITIES

Helping children to remember more

- Creating fossils with clay
- Trip to local quarry to hunt for fossils
- Creating compost bins
- Types of rocks experiment

SUBJECT SPECIFIC VOCABULARY
core
crust
cycle
extrusive
fossil
fossilisation
erode
erosion

igneous
intrusive
lava
magma
mantle
metamorphic
palaeontologist
palaeontology
permeable
pressure
porous

CROSS-CURRICULAR LINKS

Links that we can make to help children make sense of what we want them to know and be able to do.

History – Thinking about the type of rock that would be suitable to build Stone Age tools

Geography – Visit to a local quarry and talking about the different locations different rocks are found.