2

| **Science Year 3 Medium Term Planning – Advent 1: Rocks** |
| --- |
| **National Curriculum*** compare and group together different kinds of rocks on the basis of their appearance and simple physical properties
* describe in simple terms how fossils are formed when things that have lived are trapped within rock
* recognizing that soils are made from rocks and organic matter.
 |
| **Prior vocabulary knowledge**materials, properties,physical |
|  | Lesson 1 | Lesson 2 | Lesson 3 | Lesson 4 | Lesson 5 | Lesson 6 |
| **Learning intention** | How are rocks formed? | What types of rocks are there? | Can rocks change?ENRICHMENT | How can we test a rock to see if it is limestone or chalk?ENRICHMENT | Is soil just dirt? What makes soil? | How are fossils formed? |
| **Working Scientifically** | Setting up simple practical enquiries, comparative and fair tests. | Asking relevant questions and using different types of scientific enquiries to answer them. | Identifying differences, similarities or changes related to simple scientific ideas and processes. | Set up simple, practical enquiries and a comparative test and fair tests. Record findings using simple scientific language. Report on findings, results and conclusions. Use results to draw simple conclusions about whether a rock is chalk or limestone. | Making systematic and careful observations and, where appropriate taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers. | Recording findings using simple scientific language, drawings and labelled diagrams, keys, bar charts, and tables.Researching from secondary sources. |
| **Recall and retrieval** | CQ: 1-4 | CQ: 1-8Types of igneous rock. | CQ:9-10Know the meaning and examples of the word metamorphic (Y2) | CQ 11-12 | CQ:9-12How can you tell the difference between chalk and limestone? | CQ: 17-23 |
| **Sequence of knowledge throughout the lesson** | **Key knowledge**To know the words and the meaning of igneous, molten and larva.Know the stages of rock formation.To know rocks are natural.Know types of igneous rocks.DEFINE WHAT A ROCK IS AND TEST FOR HARDNESS. | **Key knowledge**To know the types of rock, how they are formed and an example of each type.Igneous, sedimentary and metamorphic.CATEGORISE TYPES OF ROCKcreating | **Key knowledge**To know the different ways igneous and sedimentary rocks can change into metamorphic rock and this occurs.Know types of metamorphic rock.Connecting | **Key knowledge**To know the characteristics of chalk and limestone.Know the effect of acid on limestone and chalk.Set up an investigation:Using controlled, independent,dependent variables to investigate if rock is limestone or chalk. | **Key knowledge**To know soil make up.To know the Geologist term for layers of soil.Identify the composition of different layers of soil.Investigate the make up of soil from the local environment. | **Key knowledge**To know what fossils are and the process by which fossils are formed.To know the features of body and trace fossils. |
| **Scaffolding** | order and label stages of rock formation | sort and label types of rock. | Stem sentences. | Mixed groups to support each otherStem sentences. | Matching labels to different layers**.** | Sequence the stages of fossil formation. |
| **Challenge** | Write an explanation of each stage of rock formation. | Write a simple explanation of each type of rock. | Simple explanation of how the changes occur. | Write a description of the types of rock. | Independently label the layers. | Simple explanation of each stage. |
| **Tier 2 vocabulary** |  cemented compacted transform |  cemented compacted transform |  cemented compacted transform |  | soildecay | prehistoric |
| **Tier 3 vocabulary** | igneousmagmametamorphic |  | sedimentarymetamorphic |  | minerals | fossil |