Topic Name – Extreme Earth
Disposition Developing Compassion: Extreme Earth
Caring for Others, Animals and the Environment

Year Group - Year 3 Spring 1
Topic Purpose Question – How can we use this information and knowledge about natural occurrence to try and keep people safe?

Curriculum Coverage: Geography
Topic Purpose – To understand the features and characteristics of Earth's layers, including a detailed exploration of volcanic, tectonic and seismic activity to gain a deep understanding of the Earth's key physical and human processes.

Class Novel: The Fire-worker Maker's Daughter.
Purpose- Topic Specific vocabulary as well as having increased exposure to modern literature.

Links to previous topics.
EYFS Big Wide World
Year 1 Animals Past and Present
Year 2 The Coast

Links to future topics.
Year 4 Misty Mountains, Windy Rivers
Year 5 Sow, Grow and Farm

Engage Stage/Memorable Experience

Explore, identify and classify a range of different rock samples. Using a hand lens identify and classify rocks according to whether they have grains or crystals and whether they have fossils in them.

Computing
Programming A – Sequencing sounds

This unit explores the concept of sequencing in programming through Scratch. It begins with an introduction to the programming environment, which will be new to most learners. They will be introduced to a selection of motion, sound, and event blocks which they will use to create their own programs, featuring sequences. The final project is to make a representation of a piano. The unit is paced to focus on all aspects of sequences, and make sure that knowledge is built in a structured manner. Learners also apply stages of program design through this unit.

See planning.

Science
Rocks.
Compare and group together different types of rocks on the basic of their appearance and simple physical properties.
Activities: Remind the children of the appearance and properties of the rocks they looked at previously and explain that their different properties mean they are suitable for different uses.

Pupils might work by observing rock, including those used in building and gravestones and explore how and why these might have changed over time.

Recognise that soils are made from rocks and organic matter.
Activities: Investigate the different soils in the school. Record and display their results for what type of soil they identified in the school grounds. Discuss any discrepancies in their results and explain that there are regional variations in soil type, including within the same locality.

Pupils to explore different soils and identify similarities and differences between them and investigate what happens when rocks are rubbed together or what changes occur when they are in water.

Describe in simple terms how fossils are formed when things that have lived are trapped within rock.
Activities: Show the children the How are fossils made? video on BBC Bitesize. After watching the video, ask them to recall and describe each step of fossil formation.

Pupils might research and discuss the different kinds of living things whose fossils are found in sedimentary rock and explore how fossils are formed.

Purpose Question: Why are fossils important to scientific investigation?

Key Vocabulary: fossils, soils, sandstone, granite, marble, pumice, crystals

Geography
Locational Knowledge
Identify the position and significance of latitude, longitude, Equator.
Activity: Longitude and latitude – locate significant places.

Locate the world's countries, using maps to focus on Europe (including the location of Russia) and North and South America, concentrating on their key physical characteristics.
Activities: Ring of fire – name and locate volcanoes and plate boundaries.

Place Knowledge
Understand geographical similarities and differences through the study of human and physical geography of a region of the United Kingdom, a region in a European country, and a region within North or South America
Activity: Features of a volcano.

Physical Geography
Describe and understand key aspects of physical geography, including: volcanoes and earthquakes.
Activities: Earthquakes and earthquake activity – physical process.

Earths layers – structure and characteristics

Name, type, describe and properties of rocks.

Compare and group rocks based on above criteria.

Tectonic plates – divided into plates, how move and impact on earth's surface.

Features of a volcano.

Activity: Share The eruption of Mount Vesuvius audio with the children. After listening, use the Mount Vesuvius sorting cards to help the children discuss the causes and effects of each stage of the eruption.

Purpose Question: Do you think if Mount Vesuvius erupted again today, would it have the same devastating affects?

Geographical Skills and Fieldwork
Use the eight points of a compass, four grid references to build their knowledge of the wider world.
Activity: The spread of a Tsunami – 8 points of a compass.

Key Vocabulary: volcanic eruptions, earthquakes, tectonic plates, epicentre, north-east, north-west, south-east, south-west, tsunami, Earth's crust, Sedimentary, Igneous, Metamorphic, volcano, gas, hot magma, ash, liquid magma, magma chamber, vent, Latitude, longitude, active, dormant, extinct, Mount Vesuvius, Laki, Ring of Fire.

Art
Drawing
To create sketch books to record their observations and use them to review and revisit ideas.
To improve their mastery of art and design techniques, including drawing, painting, printing and sculpture with a range of materials (for example, pencil, charcoal, paint, clay).
Activity: Describe fossil shape, pattern and form.

Key Vocabulary: Focal point, refine, alter, foreground, middle ground, background, hatching, composition, scale, proportion, grades of pencil.

PE
Badminton
PE Hub Planning
Identify and describe some rules in badminton.
Serve to begin a game.
Explore forehand hitting.

Games (Basketball)
Sport coach during PPA
Moving of ball around the body maintaining control.
Improve dribbling techniques at different heights.
Perform a variety of passes with confidence and accuracy.
To improve shooting techniques and accuracy.
Apply basic defending principles.
Understand the rules of the game.

Music
Taught during PPA – Music Express
Play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy, fluency, control and expression.
Use and understand staff and other musical notations.
Appreciate and understand a wide range of high-quality live and recorded music drawn from different traditions and from great composers and musicians.
Activities: Unit 5 China (Pitch).

Play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy, fluency, control and expression.
Improvise and compose music for a range of purposes using interrelated dimensions of music.
Listen with attention and detail and recall sounds with increasing aural memory
Use and understand staff and other musical notations.
Develop an understanding of the history of music.
Activities: Unit 6 Time (Beat).

MFL-Spanish
Planning from Language Angels
Instruments

PSHE
Goals and Dreams
Dreams and Goals
My Dreams and Ambitions
Celebrating My Learning
Careers Day

RE
Theme: Jesus' Miracles Concept: Incarnation
Key Question: Could Jesus heal people? Were these miracles or is there some other explanation?
Religion: Christianity
Disposition: Being Reflective and Self-Critical

Writing
See writing map