

How did the Earth evolve?

Evolution (T3)– Volcanoes and Earthquakes – Natural disasters (T4)







L earning Journey

E ngaging

A uthentic

R igorous

N ova Curriculum

Year 6 Terms 3 & 4 Big concept: change and diversity Investigating and making a difference.

Overview:

Predominant subjects: Science (T3) and Geography (T4)

This enquiry enables learners to learn about the evolution of humans and how they and animals adapt to their environment whilst learning about inherited characteristics (Science focus). As Geographers, in Term 4, we will be look at natural disasters with a focus on earthquakes and volcanoes and the effect that they have on communities.

Class texts have been chosen to enrich children's learning, encouraging them to make links with their reading and wider curriculum learning. For example, Floodlands and survivors offers opportunities for children to learn about natural disasters and the effects that these can have. What Mr Darwins Saw allow children to develop their understanding of how humans have evolved and how animals adapt to their environment.

NC Objectives – Skills, knowledge and vocabulary taught through Line of Enquiry

Science:

As Scientists we will: be exploring evolution and inheritance.

Evolution and inheritance):

- recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago.
- recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents
- identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution

Vocabulary: Genes, DNA, Descendants, characteristics, variation, identical, adapt, natural selection, species, chromosomes, variation

Through scientific enquiry, we will be:

- Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
- Using test results to make predictions to set up further comparative and fair tests
- Secondary sources- Identifying scientific evidence that has been used to support or refute ideas or arguments
- Comparing and fair testing- Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
- Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
- Reporting and presenting findings from enquiries, including conclusions, casual relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations

As Geographers we will:

Human & Physical Geography:

- I can identify how and why volcanoes erupt.
- I can explain why and where earthquakes occur.

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• Children identify how and why volcanoes erupt. How have natural disasters carved Earth's landscape?

Geography:

- Children explain why and where earthquakes. How have natural disasters carved Earth's landscape?
- Children identify land-use patterns; and understand how some of these aspects have changed over time. How have natural disasters affected population distribution across Earth?
- Children use a map with symbols and keys, 8 compass points and 6 figure grid references to navigate to a location and trace a route. Where is volcano?
- Children use a scale to calculate the distance on a map. How far did specific natural disaster reach (e.g. lava flow, tsunami floods)?
- Children use digital technology (Google Earth, IPad, data loggers) to record, interpret and present geographical data. What was the impact of significant natural disasters on life (e.g. migration, resettlement)?

Vocabulary: topographical feature, coast, river, island, cape, delta, peninsula, gulf, mountain, hill, valley, plateau, plain, desert, water cycle, evaporation, transpiration, condensation, precipitation, run-off, river, tidal river, estuary, stream, lake, tributary, current, bank, delta, mouth, source, fresh water, saltwater, mountain range, tectonic plates, force, contour, altitude, elevation, erosion, summit, peak, ascent, descent, vegetation, biome Additional Year 6 Vocabulary: volcano, Ring of Fire, magma, mantle, fault, eruption, sill, vent, eruption, crust, extinct, core, conduit, dormant, ash, active, crater, earthquake, after shock, epicentre, fault line, fore shock, main shock, magnitude, Mercallie scale, micro quake, Richter scales, seismic, tremor, tsunami

Geographical Skills & Field work:

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- Children use a map with symbols and keys, 8 compass points and 6 figure grid references to navigate to a location and trace a route. Where is volcano?
- Children use a scale to calculate the distance on a map. How far did specific natural disaster reach (e.g. lava flow, tsunami floods)?
- Children use digital technology (Google Earth, IPad, data loggers) to record, interpret and present geographical data. What was the impact of significant natural disasters on life (e.g. migration, resettlement)?

Vocabulary: arial map, ordinance survey maps, google map, political map, topographic map, physical map, economic/ resource map, scale, key, symbols, location, compass, direction, bearing, north, south, east, west, northeast (NE), southeast (SE), southwest (SW), northwest (NW), six figure grid reference, grid box, eastings, northings, equator, northern and southern hemispheres, Tropics of Cancer/Capricorn, Arctic/ Antarctic Circle, longitude and latitude, degrees, colour layering, contour, contour interval, cross section height above sea level, distance, kilometres (kms)

History:	Art
 As Historians we will be looking at: Chronological awareness and understanding Evolution topic- include a study of a significant person- Mary Anning 	As Artists we will focusing on Textiles/Collage (felt, weaving and batiq) Experiment with weaving a range of fabrics, exploring texture, colour & effect through overlapping and layering Revisit weaving skills and incorporate natural materials such as stones, sticks etc.to create own pattern Study the textile art of Healy & Burke, analyse their use of media and express views in sketchbook Explore felt making & creating felt sculptures https://www.accessart.org.uk/teenagers-make-small-sculptures-exploring-felt-making-and-transforming-materials/ Revisit felt, incorporating stitches and embellishments Study the textile art of Velda Newman (or batik artist) Explore the process of batik, create a simple design inspired by evolution https://www.accessart.org.uk/making-batik-textiles-in-classroom/ End piece - Plan & create a final textiles piece inspired by evolution, incorporating one or more of learned techniques

Opportunities for core subject learning across the curriculum		
As readers and writers we will:	As mathematicians we will:	
As Readers we will be writing/reading:	As Mathematicians we will developing our understanding of:	
 Studying the book 'Floodland' in our VIPERS sessions and reading it daily. 	tally charts, bar charts and continuous/ discontinuous data —looking at variation in our class.	
Earth Shattering events	Fractions, decimals and percentages.	
Escape from PompeiiSurvivors	An introduction to algebra, including finding rules and writing simple expressions.	
What Mr Darwin Saw	Term 4: • Measurement: to convert units and build on perimeter, area and	
Talk for writing text: The Caravan (warning tale), The Ice Dagger Dragon (nonfiction report), Lost (finding tale) and Greta Thunberg (non-fiction biography).	volume. Number, introducing ratio.	

Discrete subject teaching - Skills, knowledge and vocabulary taught discretely		
Physical Education	Music	
As fit and healthy citizens we will develop skills in: Tag Rugby and	As Musicians we will develop our musical skills and knowledge	
Fencing,(T3)	through Beacon Bristol music scheme:	
Hockey and Dance (T4)	- Rhythm - Unit 6 Chronology	
Computing	PSHE	
In computing we will develop skills through Teach Computing scheme:	As fit and healthy citizens we will develop our knowledge through	
scheme:	SCARF scheme unit: Keeping myself safe	
Web Page Creation (T3)	Rights and responsibilities	
 Introduction to Spreadsheets (T4) 		
RE	Science (taught through PPA):	
As philosophers we will explore the question: RE Enquiry: What matters most	Working Scientifically	
to Christians and Humanists?	States of Matter Properties Term 3	
Christianity and Humanism	Changes of Materials – Term 4	
French		
Term 3: Presenting Myself (Intermediate Language Teaching)		
Term 4: Do You Have a Pet? (Intermediate Language Teaching)		