| Year   | Group  | 4  | Enquiry<br>Question  | 4:1 How do natural ro  | esources help us?  |
|--|--|--|--|--|--|
| Key NC Reference<br>and Objectives             |  | <ul> <li>G.2.1.1. Name and locate counties, cities and geographical regions of the United Kingdom and recognise their identifying human and physical characteristics.</li> <li>G.2.2.1. Locate the world's countries, focusing on Europe and North and South America.</li> <li>G.2.2.2. Identify the position and significance of Northern Hemisphere, Southern Hemisphere</li> <li>G.2.4.5. Describe and understand key aspects of human geography including: economic activity including trade links, and the distribution of natural resources including energy,</li> </ul>   |  |  |  |
| Enquiry Question<br>Sequence                   |  | <ol> <li>How do we use natural resources?</li> <li>Where does our food come from?</li> <li>How can we preserve Earth's resources?</li> </ol>   |  |  |  |
| Key<br>K<br>e<br>y                             | Concepts<br>Geographical<br>Knowledge  | Substantive<br>• Where is this place?<br>• How does it concet to other places?<br>• How does it concet to other places?<br>• What is unique about its location?<br>• How does my view of this place<br>change when I zoom in or ou?<br>• How does my view of this place<br>change when I zoom in or ou?<br>• How does my view of this place<br>change when I zoom in or ou?<br>• How does my view of this place<br>change when I zoom in or ou?<br>• How does my view of this place<br>change when I zoom in or ou?<br>• How does my view of this place<br>• How and why are places<br>connected?<br>• What the local/global story?<br>• Name and locate on<br>sources (eg. coal min<br>• Name and locate the  | Core Geography<br>SPACE<br>PLACE<br>a map the lo<br>nes, wind farm | What is this place called?     What is it like?     What is it like?     What is it like?     What do fealures does it have? (Human & physica)     How and why is it changing?     What do people do here?     How do I feel about it?     How do I feel about it?     How does it compare to other places?     To cations of some non-remms, power stations)     Mode Southern Hemisphere | <b>2<sup>nd</sup> Order</b><br>Natural Resources<br>Sustainability<br>Conservation<br>Human impact<br>Trade<br>Industry<br>Globalisation<br>Physical Processes |
| o<br>b<br>j<br>e<br>c<br>t<br>i<br>v<br>e<br>s | Geographical<br>Understanding<br>Mapping and<br>Fieldwork<br>Objectives in<br>italics are<br>covered in this<br>unit only. | <ul> <li>Name and locate some countries where our food comes from (Focusing on Europe and North and South America)</li> <li>Understand that products we use are imported as well as locally produced.</li> <li>Understand where our energy and natural resources come from</li> <li>Explain how the types of industry in the area have changed over time – coal mining/steel.</li> <li>Using and interpreting:</li> <li>Use atlases, maps and globes.</li> <li>Use maps at more than one scale.</li> <li>Locate photos of features on maps.</li> <li>Use oblique and aerial views.</li> <li>Recognise some patterns on maps and begin to explain what they show.</li> <li>Use thematic maps.</li> <li>Digital map making:</li> <li>Confidently add a range of annotation labels and text to help me explain features and places.</li> <li>Highlight an area on a map and measure it using the Area Measurement Tool.</li> <li>Use the grid reference tool to record a location.</li> <li>Highlight areas within a given radius.</li> <li>Add photographs to specific locations.</li> </ul> |  |  |  |
| Relevant Previously<br>Taught Vocabulary       |  | Y2: Equator, Europe, N<br>Y3: Mineral, crops, grid   | orth/South A<br>I reference, c                                     | America, distance measu<br>coordinates, annotation   | irement tool, scale,   |

| New Key          | LOCATIONAL VOCABULARY   |  |  |  |
|------------------|---|--|--|--|
| New Rey          | Homisphere: A half of the Earth   |  |  |  |
| vocabulary       | Nerthern Herrienherer. The helf of the Forth that is North of the Founter                               |  |  |  |
|                  | Northern Hemisphere: The half of the Earth that is North of the Equator.                                |  |  |  |
|                  | Southern Hemisphere: The half of the Earth that is South of the Equator.                                |  |  |  |
|                  |   |  |  |  |
|                  | HUMAN GEOGRAPHY VOCABULARY  |  |  |  |
|                  | <b>Electricity:</b> a form of energy that can be carried by wires and is used to heat and light         |  |  |  |
|                  | homes and power machines.   |  |  |  |
|                  | <b>Trade:</b> the activity of huving selling or exchanging goods or services between people             |  |  |  |
|                  | firms or countries  |  |  |  |
|                  | Mind Turking a gradient with the first bet to use in the using the second second site.                  |  |  |  |
|                  | wind Turbine: a machine with shafts that turn in the wind to create electricity.                        |  |  |  |
|                  | <b>Industry:</b> The work involved in collecting raw materials and making them into products in         |  |  |  |
|                  | factories   |  |  |  |
|                  | Globalisation: The spreading of ideas and products around the world.                                    |  |  |  |
|                  |   |  |  |  |
|                  | PHYSICAL GEOGRAPHY VOCABULARY   |  |  |  |
|                  | Natural resource: materials or substances that are produced by the environment.                         |  |  |  |
|                  | Humans rely on them to survive.   |  |  |  |
|                  | Renewable Resources: resources which will always be available.  |  |  |  |
|                  | Non-renewable Resources: resources which will eventually run out.                                       |  |  |  |
|                  | <b>Fuel</b> : a substance that is burned to provide heat or power.                                      |  |  |  |
|                  | <b>Fossil fuel:</b> fuels such as coal, oil and gas that are formed from the remains of plants and      |  |  |  |
|                  | animals that lived a long time ago  |  |  |  |
|                  | <b>Oil:</b> a smooth thick liquid that is found underground and used as fuel and for making             |  |  |  |
|                  | parts of machines move smoothly   |  |  |  |
|                  | <b>Case</b> a substance like air that is noither liquid nor solid. It is used as a fuel for seeking and |  |  |  |
|                  | besting   |  |  |  |
|                  | neaung.   |  |  |  |
|                  | <b>Coal:</b> a hard black substance that is found underground and burned as fuel.                       |  |  |  |
|                  | <b>Energy:</b> power that is used to create heat, light and to make machines work.                      |  |  |  |
|                  | Wind Energy: wind turns turbines to create electricity.   |  |  |  |
|                  | Hydropower: moving water helps create electricity by turning turbines under the sea as                  |  |  |  |
|                  | the tide moves in and out, or by using water stored in a dam.   |  |  |  |
|                  | Solar Energy: solar panels collect energy from the Sun to create electricity.                           |  |  |  |
|                  | Global Warming: The gradual rising of the average temperatures on the Earth caused by                   |  |  |  |
|                  | over-use of fossil fuels.   |  |  |  |
|                  |   |  |  |  |
|                  | MAPPING VOCABULARY  |  |  |  |
|                  | <b>Thematic Map:</b> a map that focuses on a specific theme or subject area.                            |  |  |  |
|                  | <b>Oblique View:</b> a side-on view of the landscape rather than an aerial view.                        |  |  |  |
|                  | Area Measuring Tool: A feature of an online map that allows you to measure area.                        |  |  |  |
| Core Substantive | <b>Natural resources</b> are materials or substances that are produced by the environment.              |  |  |  |
| Knowledge        | Humans use natural resources to survive. They can be used to heat our homes, transport                  |  |  |  |
| Knowledge        | us around the world feed us and clothe us   |  |  |  |
|                  |   |  |  |  |
|                  | Some natural resources like oil gas and metal ores are limited which means they will                    |  |  |  |
|                  | eventually run out. These are called non-renewable resources. Other natural resources                   |  |  |  |
|                  | such as food grops and wood are renowable which means they can be replaced. Wind and                    |  |  |  |
|                  | such as root crops and wood are renewable which means they can be replaced. What and                    |  |  |  |
|                  | sunsnine are also examples of renewable resources. Soil, too, is regarded as a renewable                |  |  |  |
|                  | resource. However, it it is damaged or overused it becomes degraded and may blow                        |  |  |  |
|                  | away or become unable to support plant life.  |  |  |  |
|                  |   |  |  |  |
|                  | People depend on the Earth's resources in order to survive. Air and Water are our most                  |  |  |  |
|                  | tundamental needs. Food is crucial too in that we cannot live long without it. Coal, gas                |  |  |  |
|                  | and oil provide us with energy for heating and machines along with the Sun, tides, wind                 |  |  |  |
|                  | and rivers. Meanwhile, minerals supply us with the raw materials needed in                              |  |  |  |

|                 | manufacturing and industry. We build houses for shelter out of bricks, wood, glass, steel    |  |  |  |
|-----------------|--|--|--|--|
|                 | and concrete.  |  |  |  |
|                 |  |  |  |  |
|                 | Natural resources are distributed unevenly between countries and regions. In the             |  |  |  |
|                 | eighteenth and nineteenth centuries, the industrial Revolution was fuelled by the            |  |  |  |
|                 | the Middle East has played a key role in world economic affairs due to its huge reserves of  |  |  |  |
|                 | oil Countries such as the USA Canada and Australia, which export surplus wheat are in a      |  |  |  |
|                 | strong economic position, particularly as food security becomes a matter of growing          |  |  |  |
|                 | concern. A countries are unusually rich in minerals. South Africa, for example, is famous    |  |  |  |
|                 | for diamonds and Brazil has huge deposits of iron ore.                                       |  |  |  |
|                 |  |  |  |  |
|                 | This area of study introduces pupils to natural resources by highlighting minerals and       |  |  |  |
|                 | energy, food and water. Although we use these resources on a daily basis, we often take      |  |  |  |
|                 | the starting points for understanding the modern world. The increasing demand for            |  |  |  |
|                 | natural resources also raises important questions about sustainability. Finding a way to     |  |  |  |
|                 | live in harmony with the planet that supports us is becoming ever more urgent as we          |  |  |  |
|                 | move towards the middle years of the twenty-first century.                                   |  |  |  |
|                 |  |  |  |  |
|                 | Misconceptions and Research  |  |  |  |
|                 | Children are often unaware that their food comes from farms and plantations all over the     |  |  |  |
|                 | world. They also tend to take it for granted that we have ready access to electricity, water |  |  |  |
|                 | notion of interdependence. We are linked to people and places in all manner of               |  |  |  |
|                 | unexpected ways. At the same time we need to be aware that those natural resources           |  |  |  |
|                 | which are finite need to be used as sparingly as possible.                                   |  |  |  |
| Prior Knowledge | Pupils can already name and locate the seven continents and five oceans on a globe or        |  |  |  |
|                 | world atlas.   |  |  |  |
| Assessment      | Low Stakes Quizzes linked to knowledge   |  |  |  |
|                 | Response to enquiry questions  |  |  |  |
|                 | Ongoing formative assessment   |  |  |  |
| Useful Planning | Teaching Primary Geography: Chapter 28 Natural Resources                                     |  |  |  |
| Kesources       | A good overview/introduction to the tenic:   |  |  |  |
| Usetul Links    | https://www.bbc.co.uk/bitesize/topics/zshp34i/articles/z62gv9g                               |  |  |  |
|                 | Fossil Fuels and renewable energy clip:  |  |  |  |
|                 | https://www.bbc.co.uk/bitesize/topics/zshp34j/articles/zntxgwx                               |  |  |  |
|                 | A KS 3 unit (good for teacher knowledge and ideas:   |  |  |  |
|                 | https://www.rgs.org/schools/teaching-resources/natural-resources/                            |  |  |  |
|                 | A lesson designed by NASA looking at Earth's natural resources                               |  |  |  |
|                 | <u>https://www.nasa.gov/stem-ed-resources/moon-munchies-lesson1.html</u>                     |  |  |  |
|                 | https://www.twinkl.co.uk/resource/t2-t-72357-imagine-sustainability-ks2-resource-nack        |  |  |  |
|                 | Uk wind farms mapping lesson:  |  |  |  |
|                 | https://www.sustainablelearning.com/resource/wind-farm-                                      |  |  |  |
|                 | locations?destination=teaching-  |  |  |  |
|                 | resources/natural%20resource%3Ff%255B0%255D%3Dtheme%253A41                                   |  |  |  |
|                 | Lots of teaching resources and ideas around sustainability:                                  |  |  |  |
|                 | https://www.sustainablelearning.com/teaching-resources                                       |  |  |  |
|                 |  |  |  |  |