

## RED RIDGE CURRICULUM MATERIALS.

### Key Stage 2

Contents		Details of Activities	Curriculum Area
Unit 1	<b>Water Study</b>	3 - day investigation Day 1-Pond. Dipping / stream-mapping; Day 2-River Study - the birth of a river and a river in old age; Day 3-Lyn Clywedog Dam	Geography, science, maths, drama and English
Unit 2	<b>Red Ridge Place Study</b>	1 - day investigation A study of mans effect on the environments on an upland areas: (It could also be used as a contrasting place study to the area that the school are coming from).	Geography
Unit 3	<b>Tree Study</b>	1 - day investigation  A study of deciduous/coniferous trees	Science, maths, geography.
Unit 4	<b>Non-Flowering Plants</b>	1 - day investigation  A study of a wide range of plants in an Upland area.	Science, geography, English, art, DT
Unit 5	<b>Soil/Rock Study</b>	2 half-day investigations ( could be taken as a full day's work )  A study of the local soils and rocks in an uphill area	Geography, science, maths
Unit 6	<b>Minibeast Study</b>	1 - day investigation  A study of local insect life	Science

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<b>Unit 7</b>	<b>Environmental Study</b>	<p>1 - day investigation</p> <p>A study of the environment through a set of games and practical activities. ( These could be used as extension tasks to trees, non flowering plants, rock/soils or as fun activities for the evenings).</p>	Science, geography, art, English.
<b>Unit 8</b>	<b>River Banwy Study</b>	<p>1 day investigation</p> <p>A study of a valley site, including the effects of the river, the flora and fauna. ( This could also be used for a contrast study between unit 2 and /or the school's local study, as required in the National Curriculum).</p>	Science, geography.
<b>Unit 9</b>	<b>Tracks &amp; Trails</b>	<p>Half - day Investigation</p> <p>A study requiring the use of Attainment Target 1 in science; using and applying science skills, such as observations, measurement and recording.</p>	Science
<b>Unit 10</b>	<b>Weather Study</b>	<p>1 - day investigation</p> <p>A study into the effects of weather on the environment and making weather observations.</p>	Geography
<b>Unit 11</b>	<b>Limestone / Fossils</b>	<p>Half - day investigation</p> <p>A study of the rocks and fossils at Llanymynech. ( This could be taken in conjunction with unit 5 or unit 12)</p>	Geography, science
<b>Unit 12</b>	<b>A study of the lime industry at Llanymynech</b>	<p>Half- day investigation</p> <p>A study of the lime industry, the industrial revolution, the Montgomery Canal and its effects upon the environment and man. ( This could be undertaken with Unit 11 and Unit 13).</p>	History, geography, art, English

<b>Unit 13</b>	<b>The Montgomery Canal</b>	Half - day investigation  A study of the development of canals and its effects upon the local environ, with a visit to the canal museum in Welshpool and a ride on a canal boat 9 if desired). ( This could be undertaken with unit 12 and unit 14).	History, geography, art, English.
<b>Unit 14</b>	<b>The Light Railway</b>	Half Day investigation  A study of the development of the railway and its effects upon the local environments, with a visit to the station and yard at Llanfair Caereinion and a ride on the steam train to Welshpool . (This could then be followed with a ride on the canal boat, in order to examine the development of transport and the Industrial Revolution).	History. Geography, art, English.
<b>Unit 15</b>	<b>Roman Study</b>	1 day investigation  A study of the Roman Road at Cefn Coch and the Roman fort at Gibbet Hill ( Llanfair Caereinion) to examine the signs of life in Roman times.	History, English, mathematics, art.
<b>Unit 16</b>	<b>Map work study.</b>	1 - day activity  A range of activities to develop and extend map work knowledge and skills- to apply these on an orienteering course.	Geography

These materials and units offer 12 days and 4 half days of activities and investigations. All of them will also be backed up with a follow-up and extension tasks, that will take place at the Centre and/or at the school.

## **Geography**

Mapping, physical geography, the weather, river studies ( including the Rivers Severn and Banwy), the environment, mans' effect on the environment (including settlement patterns), the study of the environments change and places. All of the activities will enable the children to use and apply the geographical skills from the programme of Study and will cover Levels 1 to 6.

## **Science**

The investigations will cover life process and living things, physical process (the Earth). They offer many opportunities to use and apply experimental and investigation science and cover Levels 1 to 6.

## **Mathematics**

The materials offer the children the opportunities to use and apply mathematics, to used a range of measure and to handle data. They will cover aspect of the Programmes of Study and Levels 1 to 6.

## **English.**

The children will be able to apply aspect of the National Literacy Strategy by using a range of different texts, writing for different purposes and audiences. The activities also involve some drama, creative and imaginative writing.

## **Art and Design Technology**

Children will record what they experience and imagine, expressing ideas and feeling. They will have opportunities to represent chosen features of the work around them and use a range of resources and materials.



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## RESOURCES

### General

<ul style="list-style-type: none"> <li>• Crayons</li> <li>• Paints</li> <li>• Brushes</li> <li>• Palettes</li> <li>• Rulers</li> <li>• Scissors</li> </ul>	<ul style="list-style-type: none"> <li>• Clipboards</li> <li>• Paper / Card</li> <li>• OS Pathfinder maps 887</li> <li>• Other OS maps of area</li> <li>• White board or Black board</li> </ul>	<ul style="list-style-type: none"> <li>• Collecting Bags</li> <li>• String</li> <li>• Glue</li> <li>• Glue Sticks</li> <li>• Yoghurt pots</li> </ul>
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### Unit 1 & 2

6x2	Posts (to support baselines)	Books on Ponds and Lakes e.g.Usborne ISBN 086020 4529
6	Long tape measures	
	Balls of string	
6	Fishing nets	
	Large white trays	
10	Sample jars	
6	Beastie scoops	
20	Pipettes	
20	Petri dishes	
	Jam jars	
6	Stop Watches	
10	Ordinary watches	
10	Metre sticks	
	Oranges	

### Unit 3.

10	Magnifiers	Tree reference and Identification Books.
3	Stethoscopes	
3	Clinometers	
3	Callipers	
3	1kg weight	
10	Magnetic compasses	

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#### Unit 4

6	Trowels	Identification Books.
10	Plastic trays (white)	
	Small plastic bags	
	String	
6	Knives	
2	Magnifying glasses	
1	Compass	
	Plastic dishes or margarine tubs	



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**Unit 5**

3 sets	Auger	Old handbags
10	Scales and weighing machines	Identification Books
2	Identical tall transparent containers	Nails/table knives and coins
	Garden sieves	Small jars for collecting
	Disposable containers with tight fitting lids	Trowels
6	Geological hammers	Collecting Bags
6 pairs	Goggles	

**Unit 6**

	Assortment small jars, boxes and Containers.	Identification Books
	Nylon net or muslin	
	Elastic bands	
4	Hand lenses (midi or magnispectors)	
	Small fish tanks	
	Shoe Box	
	Black plastic sheeting	
	Old white sheeting	
	Small lengths of wood	
10	Pooters	
	Plastic spoons	

**Unit 7**

4	Frisbee or Paper Plates	
	Postcards	
	Double sided tapes	
	Blindfold	

**Unit 8**

	Pathfinder 887 Map Tape measures Stop watches Collecting bags	Identification Books
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**Unit 9**

	Plaster of Paris Card Paper Clips Hand Lenses String Soft Brush	
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**Unit 10**

	Electric Kettle Clear polythene bags and twists Wind vane and measuring device for wind speed Thermometer Weather Maps	
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**Unit 11**

	Quadrant  Magnifiers Geological hammers Goggles Collecting bags	Reference Books on Limestone, Fossils and Plant Life  Old Handbags
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**Unit 12**

		Maps of Llanymynech
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**Unit 14**

		Maps of Railway Line - Llanfair to Welshpool
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**Unit 15**

		Reference Books on Romans
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**Unit 16**

10	Protractors	Wide range of Maps