

# EXAMPLE PROGRAMMES

## Eco Buildings day visit Yr 6 x 60



Pupils will have a go at building using some eco - friendly buildings materials that have been used in developing countries or can be applied to projects in school or in the community. Pupils work with clay and sand, with sand bags, with willow and mini shingles to understand how an earth oven is built, how a sandbag arch can be made to carry their weight and how shingles are applied to a roof for maximum waterproofing. With potential applications explained this is a chance to get really hands on and get a feel for the materials. Pupil's will learn that they can handle materials effectively, working in groups and gain knowledge of simple eco-building processes. A design activity can be included to link the tour with the hands on activity and help to focus ideas for sustainable community buildings.

### School topic or learning outcomes

Human geography, including: types of settlement and land use, economic activity including trade links, and the distribution of natural resources including energy, food, minerals and water  
D & T - investigate and analyse a range of existing products, /use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose

### Sustainability Centre Message

**“By acting in a more sustainable way we can develop a world that future generations will thank us for.”**

### Sustainability Centre Learning Objectives

To engage in hands-on sustainable building techniques  
To identify and consider our use of renewable and/ or finite resources on site  
To see working examples of energy saving and energy production, both residential and workplace

**10.00 am Welcome** - plan for the day, house keeping, safety

10.15am Break (please bring a drink and snack. Teachers can purchase hot drinks at the Beech café)

10.30am Class A Rotating (3 groups of 10 pupils) Hands-on building activities outside Clay oven building / Sandbag Arch building / Shingle roofs and mini hurdles

Class B Tour of Eco buildings, Wet system, Elizabeth Fitzroy Rural Skills Centre

12:00 Lunch (please bring a drink and food. Teachers can purchase hot drinks from the Beech café. There should be time for a short run around outside too. We ask that you sort your waste back at school or at home.)

12.45pm Class A Rotating (3 groups of 10 pupils) Hands-on building activities outside Clay oven building / Sandbag Arch building / Wooden shingles & Weaving hurdles

Class B Tour of Eco buildings, Wet system, Elizabeth Fitzroy Rural Skills Centre

2.15 pm Plenary and assessment activity

2:30 Back on bus

## Wood for Good day visit Yr 4 x 30



Pupils will discover how important forests are globally and locally. There will be a short classroom session with artefacts and pictures to show some of the very diverse products people make from wood and what products we harvest from forested areas of the world., We will look at a globe and identify biomes and vegetation belts and then head out into our native mixed deciduous woods to explore first hand. Pupils will focus their senses on collecting and experiencing the textures, colours and sounds around them. They can compare their findings from our woodland with their expectations of what would be found in a rainforest. Continuing outside pupils will go on a discovery trail to collect and sort rainforest fact cards to help them to consider how important the world's forests really are. The concerns they will look at range from increase in carbon dioxide levels to habitat loss and the silting up of rivers and include more immediate human concerns such as looking after tribal peoples rights. In the afternoon with plenty of hands on crafts pupils can have a go at shingling a miniature roof in small groups, make their own elder beads and weave a section of willow hurdle. Pupils will learn that we need to give value to our woodlands in Britain and find wise uses for our native trees that enhance rather than destroy our forests.

### School topic or learning outcomes

Science - identify and name a variety of living things in their local and wider environment /recognise that environments can change and that this can sometimes pose dangers to living things

D & T - investigate and analyse a range of existing products, /use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose

### Sustainability Centre Message

**“By acting in a more sustainable way we can develop a world that future generations will thank us for.”**

## Wood for Good day visit Yr 4 x 30 continued

### Sustainability Centre Learning Objectives

To explore sustainably managed habitats (woodland, meadow, pond etc)

To engage with the natural environment in creative ways

To identify and consider our use of renewable and/ or finite resources on site

**10.00 am Welcome** - plan for the day, house keeping, safety

10:15am Classroom looking at biomes, vegetation belts, forest harvest and wood products, then outside native woodland discovery activities

11:15am Break (please bring a drink and snack. Teachers can purchase hot drinks from the Beech café.) there should be time for a short run around outside

11:30 Rainforest fact card trail in woods

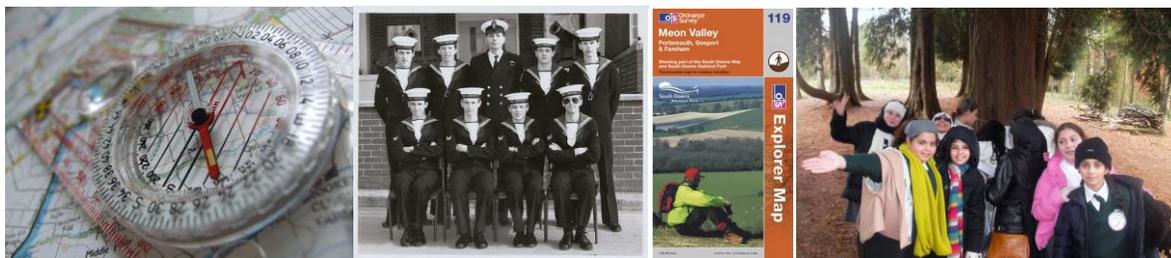
12:30 Lunch (please bring a drink and food. Teachers can purchase hot drinks from the Beech café. There should be time for a short run around outside too. We ask that you sort your waste back at school or at home.)

1pm Rotating in 3 groups – Craft / wood work activities outside under cover  
Wooden shingles on mini roofs / Weaving mini hurdles / Elder beads or wooden name badges

2:15 Plenary & assessment activity

2:30 Back on bus

## Eco Exploration day visit Yr 5 x 30



This activity offers a chance to explore the local history of the Sustainability Centre site, use maps and consider the impact of human exploration locally and globally. Pupils will have a chance to explore the location themselves by navigating their way around site in groups with their school leaders. They will discover how the land at the Centre has changed over the past 100 years and learn to relate this to human impact, resources and settlement on this ex naval site. Pupils will use a compass to set their ordnance survey map and practice 6 grid references and then use a simple map with symbols to undertake the explorer trail. This is a fun and challenging, hands on set of activities which is really focused on the many ways in which humans use the earth's resources and change the land. The history of the site covers the period of WW2.

## Eco Exploration day visit Yr 5 x 30 continued

A full day can be spent on this topic with a literature focus based on 2 Victorian Explorers and their contrasting regions (North Pole and Africa). We will look at the motivation for exploration from Victorian missions to the present day exploration of space.

### School topic or learning outcomes

Map skills, use the eight points of a compass, four and six figure grid references, symbols and key (including Ordnance Survey Maps) and start a local history study

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### Sustainability Centre Learning Objectives

To use navigational tools to explore the history and physicality of this site

To engage with the natural environment in creative ways

To consider the balance of ‘earth care’, ‘people care’ and ‘fair share’ in our choices and actions

**10.00 Welcome** - plan for the day, house keeping, safety

10.15 am Base camp with fire if appropriate, listen to extracts from the journals of Dr Livingston in tropics and Fridtjof Nansen in polar regions, see natural discovery items

10.35am Break - we will provide hot chocolate at base camp

11:00 am Biodiversity balls and simple compass reading and map orientation activity

12 noon Lunch (please bring a drink and food. Teachers can purchase hot drinks from the Beech café. There should be time for a short run around outside too. We ask that you sort your waste back at school or at home.)

12.45 pm Pupils use a compass to set their ordnance survey map and practice 6 grid references and then use a simple map with symbols to undertake the explorer trail in groups with adult helpers.

2pm Discussion of discoveries, history of site and future challenges

2:15 Plenary & assessment activity - pupils create journal entries for their expedition

2:30 Back on bus