



Englefield Estate Schools Days Content Summary, Curriculum Links and Learning Objectives

The theme of the Englefield Estate Schools Days event is Sustainability.

Please note: the information below is provided for the 2024 event. We anticipate one or two changes due to updated content. The Teacher Handbook for the next event will be available from May 2025.

During your visit, seven topics related to sustainability are covered: Food & Farming, Trees & Timber, History, Habitats & Wildlife, Health & Wellbeing, Community and Energy & Water. Each class is assigned a timetable of activities following one of four routes around the Estate. The content of each route, and the related learning objectives, are summarised in the table below.

Route assignment is based on the following criteria:

1. Needs of the class attending (health/mobility/additional needs/allergies)
2. Size of the group attending (when possible, we place multiple classes from the same school on the same route as it helps school staff to be closer together)

Route	Topic and Activity	Main subject focus	Curriculum Links and Learning Objectives
1	<p>Habitats & Wildlife</p> <p>Reading & District Beekeepers: Talk and display, including real beehive and queen bee</p> <p style="color: red;">Specific allergy risk: bees (display hive is sealed container)</p>	The Honeybee	<p>Curriculum Links:</p> <ul style="list-style-type: none"> Living things and their habitats Cooking and nutrition <p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> Looking more closely at the natural world. Developing an awareness of the relationships between bees and plants. Developing an understanding of the bee life cycle. Developing an awareness of honeybee products and pollination services that humans rely on.

2	<p>Habitats & Wildlife</p> <p>Butterfly Conservation and the Berkshire Moth Group: exhibit and Q&A, including live specimens</p>	Butterflies and Moths	<p>Curriculum Links:</p> <ul style="list-style-type: none"> • Living things and their habitats • Key Skills and Learning Objectives: • Looking more closely at the natural world. • Identifying and naming a variety of living things in the local environment. • Developing an awareness of the relationships between butterflies/moths and plants. • Developing an understanding of the butterfly life cycle and metamorphosis.
3	<p>Habitats & Wildlife</p> <p>Englefield Estate Game Department: Talk and interactive displays of pollen and nectar producing plants, bird seed, museum specimen animals and gamekeeping equipment</p> <p>Specific allergy risk: mixed grains including wheat</p>	Wildlife Management and Conservation	<p>Curriculum Links:</p> <ul style="list-style-type: none"> • Living things and their habitats <p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> • Developing an awareness of food chains, identifying producers, predators and prey. • Identifying and naming a variety of living things in the local environment. • Developing an awareness that some UK habitats are managed for the benefit of certain species and why this is important.
4	<p>Habitats & Wildlife</p> <p>University Centre Sparsholt: Food chain game</p>	Food chains	<p>Curriculum Links:</p> <ul style="list-style-type: none"> • Animals, including humans <p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> • Construct and interpret a variety of food chains, identifying producers, predators and prey
1	<p>Energy & Water</p> <p>Pang Valley Flood Forum: Introduction, water cycle activity and construct a leaky dam activity</p>	The water cycle and flood prevention	<p>Curriculum Links:</p> <ul style="list-style-type: none"> • Human and physical geography • Living things and their habitats <p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> • Understand key aspects of the water cycle. • Explore an example of human impact – causes of flooding and ways to prevent it.

2	<p>Energy & Water</p> <p>Action for the River Kennet: Freshwater invertebrate identification and counting; using results to assess water quality</p>	Freshwater invertebrates	<p>Curriculum Links:</p> <ul style="list-style-type: none"> • Living things and their habitats • Human and physical geography <p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> • Explore and use classification keys to help group, identify and name a variety of aquatic invertebrates. • Develop an awareness of human impacts on water quality. • Developing an understanding of key features of local rivers.
3	<p>Energy & Water</p> <p>Hills Waste Management: Recycling game and interactive talk demonstrating what happens to the rubbish that is collected from homes and schools</p>	Recycling and waste	<p>Curriculum Links:</p> <ul style="list-style-type: none"> • Living things and their habitats • PSHE (ways of carrying out shared responsibilities for protecting the environment in school and at home) <p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> • Recognise that environments can change and that this can sometimes pose dangers to living things • Explore an example of human impact on the environment - litter • Understand how to separate waste for recycling • Understand why putting litter in the bin is so important • Think about how waste management and recycling could be improved at their school
4	<p>Energy & Water</p> <p>Ian Gough: Renewable Energy talk and demonstration</p>	Renewable Energy	<p>Curriculum Links:</p> <ul style="list-style-type: none"> • Electricity • Living things and their habitats <p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> • Identify common appliances that run on electricity • Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a renewable energy source (wind/sunlight) • Explore examples of the human impact of energy generation on the environment (fossil fuels versus renewable energy)

<p>1</p>	<p>Farming & Food</p> <p>Englefield Estate Gardeners: Super Soils activity with talk, worm hunt, compost making and planting</p>	<p>Healthy soils, composting, how plants grow</p>	<p>Curriculum Links:</p> <ul style="list-style-type: none"> • Plants • Rocks <p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> • Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) • Recognise that soils are made from rocks and organic matter • Understand the importance of earthworms for recycling nutrients and forming soils • Understand how to plant in pots
<p>2</p>	<p>Farming & Food</p> <p>Englefield Estate Gardeners: Super Soils activity with talk, worm hunt, compost making and planting</p>	<p>Healthy soils, composting, how plants grow</p>	<p>Curriculum Links:</p> <ul style="list-style-type: none"> • Plants • Rocks <p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> • Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) • Recognise that soils are made from rocks and organic matter • Understand the importance of earthworms for recycling nutrients and forming soils • Understand how to plant in pots
<p>3</p>	<p>Farming & Food</p> <p>Newbury & District Agricultural Society and Englefield Home Farm: Milk and meat activity, milking demonstration animals and meeting a Hereford cow and calf</p>	<p>Livestock, milk and meat</p>	<p>Curriculum Links:</p> <ul style="list-style-type: none"> • Animals, including humans • Cooking and nutrition <p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> • Developing an understanding of the gestation periods of animals • Identify that animals need the right types and amount of nutrition and that they cannot make their own food; they get nutrition from what they eat. • Developing an understanding of where food comes from • Understand seasonality and know where and how cattle are reared and the food products we use from livestock.

<p>4</p>	<p>Farming & Food</p> <p>HBH Farming and the John Simonds Trust: Arable Farming machinery display and talk. Interactive talk about wheat, oilseeds and products with hand grinder, seeds and grains</p> <p>Specific allergy risk: wheat and flour, oilseed rape or linseed</p>	<p>The Arable Farming Year</p>	<p>Curriculum Links:</p> <ul style="list-style-type: none"> Plants Cooking and nutrition <p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow). Developing an understanding of where food comes from. Developing an understanding of the life cycle of wheat. Understand seasonality and know where and how wheat is grown and processed to make food.
<p>1</p>	<p>Trees & Timber</p> <p>Englefield Estate Carpenters: Talk and carpentry activity constructing barn owl nesting boxes</p>	<p>The work and materials used by Estate carpenters</p>	<p>Curriculum Links:</p> <ul style="list-style-type: none"> Properties and changes of materials <p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> Comparing different woods on the basis of their properties, including their hardness Developing an awareness of the reasons for the particular uses of wood, and the skills required to construct items from wood
<p>2</p>	<p>Trees & Timber</p> <p>Pangbourne College: How Big is That Tree? Activity measuring a tree and comparing with famous examples</p>	<p>The biggest trees at Englefield – Wellingtonias</p>	<p>Curriculum Links:</p> <ul style="list-style-type: none"> Plants Living things and their habitats Measurement and Geometry <p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> Developing an understanding that tree species can be under threat in their native habitats and that specimens can be grown elsewhere for interest and conservation. Historic gardens are an example of this. Problem solving, using number in context, including measurement. Depending on the age group, this can involve: measuring the perimeter of a circle; naming parts of circles, including radius, diameter and circumference; identifying a right angle; recognising when it is possible to use formulae for area and volume of shapes; finding unknown angles in any

			triangles; using Pythagoras theorem to calculate the height of a tree (with assistance).
3	Trees & Timber Pangbourne College: How Big is That Tree? Activity measuring a tree and comparing with famous examples	The biggest trees at Englefield – Wellingtonias	Curriculum Links: <ul style="list-style-type: none"> • Plants • Living things and their habitats • Measurement and Geometry Key Skills and Learning Objectives: <ul style="list-style-type: none"> • Developing an understanding that tree species can be under threat in their native habitats and that specimens can be grown elsewhere for interest and conservation. Historic gardens are an example of this. • Problem solving, using number in context, including measurement. Depending on the age group, this can involve: measuring the perimeter of a circle; naming parts of circles, including radius, diameter and circumference; identifying a right angle; recognising when it is possible to use formulae for area and volume of shapes; finding unknown angles in any triangles; using Pythagoras theorem to calculate the height of a tree (with assistance).
4	Trees & Timber Englefield Estate Forestry Department: Forester game and building a bench activity	How we plant and grow trees, forestry products and uses of wood	Curriculum Links: <ul style="list-style-type: none"> • Plants • Living things and their habitats Key Skills and Learning Objectives: <ul style="list-style-type: none"> • Understand the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow). • Developing an awareness that some UK habitats are managed for the benefit of certain species and why this is important. • Developing an understanding of the timber production cycle and uses of the timber produced.
1	History Englefield House: Guided tour	Englefield House	Curriculum Links: <ul style="list-style-type: none"> • Significant historical events, people and places in their own locality.

			<ul style="list-style-type: none"> • A study of an aspect of history or a site dating from a period beyond 1066 that is significant in the locality. <p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> • Developing an understanding that a “stately home” was (and is) a home, a business and the centre of a community. • Exploring the connections, contrasts and trends over time e.g. accessibility, light and heating, staffing, purpose and use, from status symbol to war hospital to filming location.
2	History Englefield House: Guided tour	Englefield House	<p>Curriculum Links:</p> <ul style="list-style-type: none"> • Significant historical events, people and places in their own locality. • A study of an aspect of history or a site dating from a period beyond 1066 that is significant in the locality. <p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> • Developing an understanding that a “stately home” was (and is) a home, a business and the centre of a community. • Exploring the connections, contrasts and trends over time e.g. accessibility, light and heating, staffing, purpose and use, from status symbol to war hospital to filming location.
3	History Museum of English Rural Life: Activity – what can specific objects tell us about rural life?		<p>Curriculum Links:</p> <ul style="list-style-type: none"> • A study of an aspect of history or a site dating from a period beyond 1066 that is significant in the locality <p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> • Ask key questions to explore objects, providing a gateway to engaging with rural people’s lives and the context in which they lived • Compare and contrast historic objects and ways of living with contemporary examples
4	History West Berkshire Council Archaeologists: Activity identifying potential archaeological sites from maps and satellite imagery	Local archaeology	<p>Curriculum Links:</p> <ul style="list-style-type: none"> • History - continue to develop a chronologically secure knowledge and understanding of British history • Geography - use maps and digital/computer mapping to locate and describe features

			<p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> • Use Ordnance Survey map grid references, symbols and key to identify archaeological features • Use satellite images to identify archaeological features • Develop an understanding of the way the local archaeology demonstrates the history of the landscape, from Neolithic and Bronze Age through Roman, Anglo-Saxon and Tudor periods to more recent Victorian and WWII sites
1	<p>Community</p> <p>St Mark's Church, Englefield: Introduction to the church, demonstration christening and marriage ceremonies as an introduction to life in the Christian community</p>	The Christian community	<p>Curriculum Links:</p> <ul style="list-style-type: none"> • Citizenship – developing good relationships and respecting the differences between people • RE – believing and belonging <p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> • Understanding the role of different parts of a church building • Developing an awareness of what it means to be part of a community • Developing an understanding of life as part of the Church of England community, from birth to adulthood
2	<p>Community</p> <p>The Angling Trust Reel Education Team: Games and activities introducing the sport of angling</p>	Freshwater fish and angling	<p>Curriculum Links:</p> <ul style="list-style-type: none"> • Living things and their habitats • Citizenship – developing a healthy lifestyle <p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> • Developing an awareness of angling as a hobby and considering what makes a healthy lifestyle • Learning about freshwater fish and invasive species
3	<p>Community</p> <p>Design a Village activity</p>	Using simple models to discuss and design a sustainable village	<p>Curriculum Links:</p> <ul style="list-style-type: none"> • Human and physical geography • Citizenship – understanding that resources can be allocated in different ways and that these economic choices affect individuals, communities and the sustainability of the environment <p>Key Skills and Learning Objectives:</p>

			<ul style="list-style-type: none"> Using aspects of human and physical geography, including land use, economic activity, energy and water to design a sustainable village. Discussing and debating topical issues
4	<p>Community</p> <p>Englefield Estate Maintenance Team: Tiling a roof activity</p>	<p>Meet the people who maintain the buildings at Englefield and try tiling a roof</p>	<p>Curriculum Links:</p> <ul style="list-style-type: none"> Human and physical geography Properties and changes of materials Citizenship - <p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> Learning about the type of settlement Englefield is Using building materials based on their properties (waterproofing, hardness etc) Developing awareness of the range of jobs carried out on the Estate
1	<p>Health & Wellbeing</p> <p>Berkshire Bat Rescue: Talk about bats and why they sometimes need rescuing, bat senses game and threats to bats game</p>	<p>Voluntary conservation work and British bats</p>	<p>Curriculum Links:</p> <ul style="list-style-type: none"> Living things and their habitats Citizenship - recognise the role of voluntary groups Light and sound Evolution & Inheritance <p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> Recognise that light is needed in order to see things and that dark is the absence of light Recognise that vibrations from sounds travel through a medium to the ear Identify how bats are adapted to suit their environment in different ways and recognise that adaptation led to evolution recognise that environments can change and that this can sometimes pose dangers to living things
2	<p>Health & Wellbeing</p> <p>Countryside Learning: Dragonfly talk and craft activity</p>	<p>Dragonflies, art and craft</p>	<p>Curriculum Links:</p> <ul style="list-style-type: none"> Living things and their habitats Art and Design <p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> Understanding the dragonfly body plan

			<ul style="list-style-type: none"> • Understanding the dragonfly lifecycle • Creating and decorating a model dragonfly using simple materials and methods
3	<p>Health & Wellbeing</p> <p>Hampshire County Council Access Team: The new Countryside Code talk and quiz</p>	The Countryside Code	<p>Curriculum Links:</p> <ul style="list-style-type: none"> • Citizenship <p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> • Learning the principles of Respect, Protect and Enjoy in the context of a healthy lifestyle, avoiding antisocial behaviour and conserving the environment
4	<p>Health & Wellbeing</p> <p>Small Fire, Big Adventure: A range of hands-on bushcraft activities in a relaxing atmosphere</p>	Bushcraft	<p>Curriculum Links:</p> <ul style="list-style-type: none"> • Art and design <p>Key Skills and Learning Objectives:</p> <ul style="list-style-type: none"> • Creativity and experimentation • Using natural materials to create friendship bands • Hand weaving