

KSI-2 KS3

OUTDOOR LEARNING KIT

Belsay Hall, Castle and Gardens

This kit helps teachers plan a visit to the gardens at Belsay. Take your learning outdoors in 30 acres of outstanding gardens, offering fantastic cross-curricular teaching and learning opportunities. Use these resources before, during and after your visit to help students get the most out of their outdoor learning experience.



GET IN TOUCH WITH OUR EDUCATION BOOKINGS TEAM:

- 0370 333 0606
- bookeducation@english-heritage.org.uk
- bookings.english-heritage.org.uk/education

Share your visit with us on Twitter $\textcircled{\mbox{\bf @EHE} ducation}$







WELCOME

This Outdoor Learning Kit has been designed for teachers and group leaders to support a free self-led visit to Belsay Gardens. It includes a variety of materials suited to teaching a wide range of subjects and key stages, with practical information, activities for use in the gardens and ideas to support follow-up learning.

We know that each class and study group is different, so we have collated our resources into one kit allowing you to decide which materials are best suited to your needs. Please use the contents page, which has been colour-coded to help you easily locate what you need and view individual sections. All of our activities have clear guidance on the intended use for study so you can adapt them for your desired learning outcomes.

In addition to the resources and activities found here, you can download the Teachers' Kit from the Schools page for a historical overview of the whole site, plus activities relating to the hall and castle.

We have also created a Sensory Trail, to improve access for students with additional needs, which you can download from the Schools page.

We hope you enjoy your visit and find this Outdoor Learning Kit useful. If you have any queries please don't hesitate to get in touch with a member of our team either via bookeducation@english-heritage.org.uk or on 0370 333 0606.

English Heritage Learning Team

ICON KEY

The icons below will help you quickly identify the types of activities and information presented.







SPEAKING

EXAMINE











ACTIVITY







LOOK





NATURE



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INTRODUCTION

Practical information to help plan a visit to Belsay Gardens.





BELSAY HALL, CASTLE AND GARDENS TOP TIPS FOR OUTDOOR LEARNING

FREE PLANNING VISIT

- Belsay has 30 acres of outdoor space ideal for cross-curricular learning.
- To help you plan your trip, we can offer you a free advance visit. Simply print off your visit permit and take it along to the site; your permit allows you one-time free family entry. Permit entry is not accepted on event days.

RISK ASSESSMENT

- All group leaders need to complete their own risk assessment before a visit.
- We encourage you to explore the site with your senses; looking, sniffing and touching. But please do not lick or pick anything. This keeps you safe and protects the gardens.
- Please be aware of plants with toxic sap such as euphorbia and hogweed and do not sniff things like bracken, which has toxic spores in August–September.
- Please refrain from touching things like yew leaves if you are working with students who will struggle to avoid hand to mouth contact before reaching hand-washing facilities.

CLOTHING

- A walk through the Belsay gardens will take you through the formal terraces, the quarry gardens and around the castle grounds. While most of this walk has gravelled pathways, we recommend your group wears sturdy shoes or wellies as the pathways can get wet and sometimes muddy.
- As you will be spending a lot of time outdoors, don't forget to layer up your clothes, and remember a sun hat (or a woolly hat in the autumn and winter) as well as a waterproof coat.

OTHER VISITORS AND EVENTS

- Please be aware of other visitors as you are moving around the site and allow them to enjoy the different areas as well.
- We often have events and tours happening during the week that may take place when you are here.
- We are a dog friendly site so you may come across other visitors with their pets as well as guide dogs while out and about.

PROTECTING THE HISTORIC GARDENS

- Please help us protect Belsay's outdoor spaces by asking students to respect the gardens and every living thing found there.
- To lessen the impact on the historic gardens, it's a good idea to visit the different areas in smaller groups where possible. This will also give your groups plenty of time to explore the different sights, sounds and smells that the outdoor spaces have to offer.





BELSAY HALL, CASTLE AND GARDENS SITE MAP



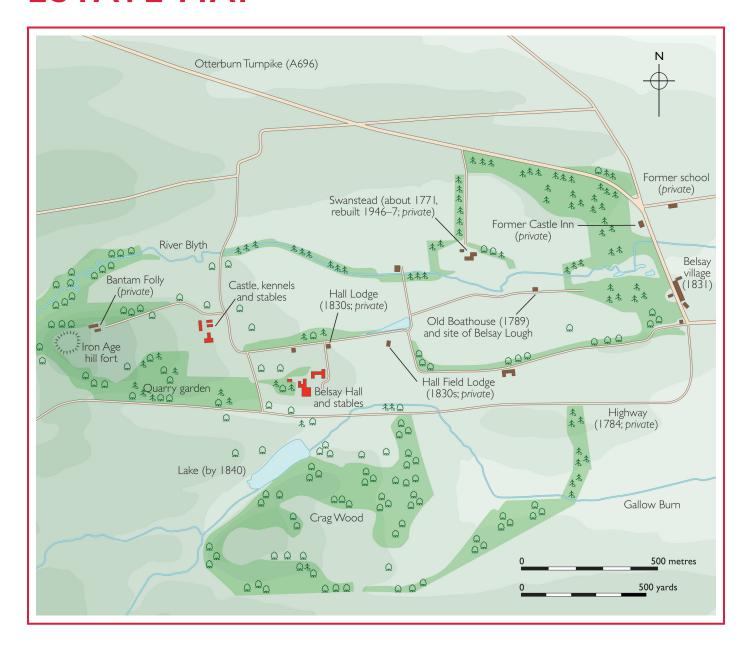
KEY

- CAR PARK
- 2 TOILETS
- 3 CAFE (NEAR HALL)
- 4 TICKETS/SHOP
- 5 HALL
- 6 QUARRY GARDEN
- 7 CASTLE
- 8 CAFE/TOILETS/PLAY AREA
- 9 LEARNING SPACE
- 10 CRAG WOOD





BELSAY HALL, CASTLE AND GARDENS ESTATE MAP





PRE-VISIT

Information and activities you can use in the classroom before your visit.





Below is a short history of Belsay Gardens. Use this information to learn how the site has changed over time. You'll find the definitions of the key words in the Glossary.

BELSAY'S HISTORIC LANDSCAPE

Belsay Park lies between two streams: the river Blyth to the north and the Gallow Burn to the south. To the west is a prehistoric hillfort and to the east is Belsay village – moved from its original position to this location in 1831 by Sir Charles Monck, to make way for his garden plans.

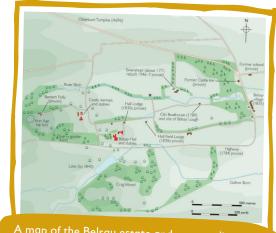
Belsay Castle was at the centre of Belsay's landscape from the 1300s to the 1800s. By the late 1600s there was a formal walled garden to the south and east of the castle. In the 1740s or 1750s, the grounds were landscaped in the style of Capability Brown, including the creation of Bantam Folly.

At the beginning of the 1880s Sir Charles Monck created Belsay Hall and transformed the landscape into the Picturesque layout you see today. He created the terraces and the

quarry garden, added plants and trees, extended roads, moved the original 'Belsay Town' to the east, and dammed the Gallow Burn to create an artificial lake.

Sir Charles' grandson, Sir Arthur Middleton, created the winter garden and yew garden, and added an extra section to the quarry, but mostly focused on adding to his grandfather's original design with a wider range of exotic plants.

Sir Charles and Sir Arthur both kept detailed records of their gardening activities, giving us a fascinating insight into Belsay's historic gardens.



A map of the Belsay estate and surrounding areas as they are laid out today. Find a full-page version on page 8.

GROWING A GLOBAL GARDEN

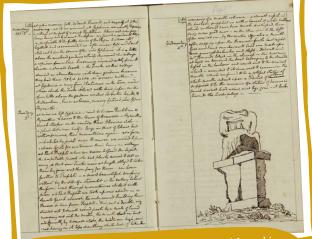
When the Picturesque garden was first created, Sir Charles Monck introduced a limited number of plant species, which included a few native trees. By 1852 he had expanded the planting to include exotic plants, wildflowers and native ferns.

Sir Charles travelled a lot throughout his life, both in Britain and overseas. His travel journals provide revealing insights into his character and the interests that inspired the design of the house and gardens at Belsay.

The quarry garden design was influenced by Sir Charles' travels around the Mediterranean in 1831. It includes the towering rock arch, directly influenced by the ancient quarries at Syracuse in Sicily.



This postcard from the Belsay archive shows the ancient quarries at Syracuse, Sicily. © Published with kind permission of Northumberland Archives and the Belsay Estate



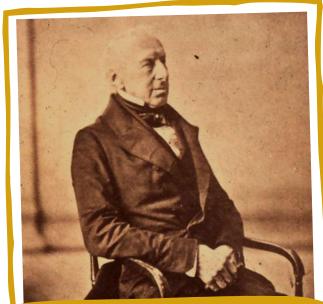
Pages from Sir Charles Monck's journal from his tour of Germany, Venice and Greece, 1804–6. © Published with kind permission of Northumberland Archives and the Belsay Estate

In the early 1900s Sir Charles' grandson, Sir Arthur Middleton, planted new trees, shrubs, climbers and rhododendrons. Many of the trees added by Sir Arthur are imports from abroad and are very early examples of these plants grown in Britain. This changed the focus for the quarry from the rockwork to plants.

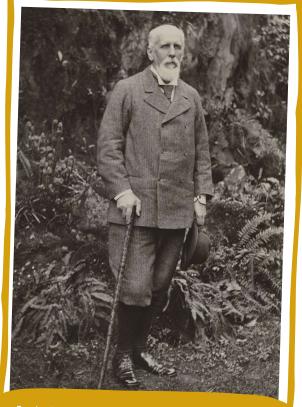
GARDEN DESIGNERS PAST AND PRESENT

Sir Charles Monck

Sir Charles Monck designed the impressive views to and from the terraces in the early 1800s. He laid out a formal flower garden and terraces to enjoy with his family and friends staying at the hall. They contrasted dramatically with the wild-looking landscape he shaped beyond. This type of landscape, in the style known as the Picturesque, was fashionable in the early 1800s, though very few such landscapes remain today.



A photo of Sir Charles Monck in 1865, at the age of 86. © Published with kind permission of Northumberland Archives and the Belsay Estate



Sir Arthur Middleton standing in the quarry garden in about 1900. © Published with kind permission of Northumberland Archives and the Belsay Estate

Sir Arthur Middleton

Sir Arthur Middleton inherited Belsay in 1867. He kept the structure of the formal garden but extended and added to it. The winter garden was created in the 1880s. It was planted with low evergreens, tree heathers, conifers and other winter flowering plants, set around a grass croquet lawn and tennis court.

In the early 1900s collecting newly imported plants was fashionable, and Sir Arthur joined this trend, planting new species at Belsay that had only recently been introduced to Britain.

Lady Mary Monck

Lady Mary Monck (1785–1861), Sir Charles' second wife, was an artist specialising in painting Picturesque scenes, as well as a keen gardener who worked with her husband on the design of Belsay's garden.

In the early 1800s Crag Wood was planted with conifers newly introduced to England, Scots pines and

Mary was a talented painter and gardener. She probably drew this view of Belsay Hall in the 1830s. © Published with kind permission of Northumberland Archives and the Belsay Estate

other native trees. The original paths through the wood were planned by Lady Mary.



Dan Pearson

Belsay's grounds and gardens were rejuvenated as part of the 'Belsay Awakes' National Lottery Heritage Fund project, completed in 2023. The famous garden designer Dan Pearson created a new plant scheme in the formal gardens, inspired by the plants and designs of the past. A range of plants were added that flower over a longer period, creating more colour throughout the year. Around the grounds, invasive species were removed, trails and information were added and habitats for wildlife and native plants were enhanced.





Below is a list of words you might come across while exploring Belsay. Use this Glossary to find out what they mean.

amphibian – small four-legged vertebrates (creatures with a backbone) that need water, or a moist environment, to survive

<u>anhud</u> – a plant that completes its life cycle, from germination to producing seeds, within one growing season (then dies!)

arachnid – the name given to a group of creatures with eight legs and a body made of two parts

bark – the hard outer covering of a tree or shrub

biennial – a flowering plant that completes its life cycle in two growing seasons

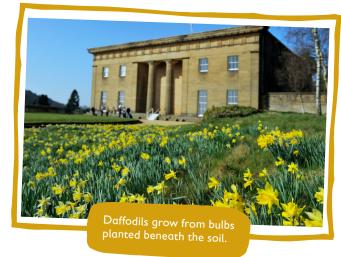
branch – the part of a tree that sticks out from the trunk, on which the leaves and fruit grow

bulbs – underground masses of food storage from which plants grow. Bulbs are planted under the soil, and plants grow from them at certain times of year.

climbers – plants that cling to walls and fences, using special stems that help them to grip as they grow

cocooh – a covering or case made by some creatures to protect themselves or their young as they develop into adults

conifers – plants that bear cones and have evergreen needle-like leaves



croquet – a game played on a lawn, in which wooden balls are knocked through square-shaped hoops, using mallets

crustaceah – the name given to a group of creatures with a tough armour-like outer shell, a body made of segments, and limbs that have joints



deciduous – used to describe a plant that drops its leaves at a certain point in the year, usually autumn

estate – an area of land or property

evergreens – plants that keep their leaves and stay green all through the year

exoskeleton - a tough outer shell

exotic plants – plants from a faraway country, if you live in the UK

ferns – plants with long stems, green leaves that look like feathers, and no flowers

fungi – a group of simple organisms (living things) that are not plants, animals or bacteria e.g. mushrooms and mould. They feed on organic matter and can be found



Fungi growing on a rotting log. Photo taken by Imogen Robinson, an A-level photography student.

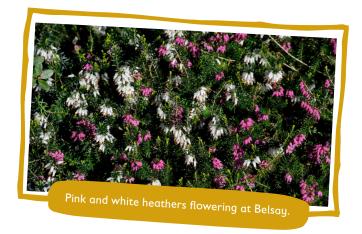
everywhere: in soil, lakes, rivers and trees.

gastropod – the name given to a group of creatures with soft flat-based bodies and a muscly 'foot' which they use to move around

habitat – the natural home of a plant, animal or other living thing

harvest – the act of cutting and collecting crops, fruit and vegetables

heathers – spreading evergreen shrubs with upright stems, usually with tiny pink, purple or white bell-shaped flowers



hibernate - the clever

way some animals survive the cold winter weather by finding a safe place to curl up until warmer weather arrives. During hibernation, animals go into a deep sleep, barely breathe and allow their body temperatures to drop.

hillfort – a fort built on a hill, often enclosed by a system of defensive banks and ditches

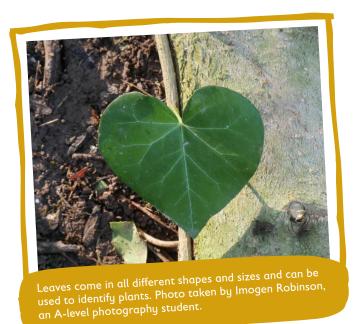
honeydew – the sugary waste secreted by aphids, which some butterflies feed on

imports – things brought into a country from another

invasive – plants and animals that spread out of control

invertebrate – a creature with no backbone. Some of these have tough skeletons on the outside of their bodies, called exoskeletons.

leaf – the flat part of a plant which grows from a stem or branch. Leaves help the plant absorb sunlight.



Mediterranean – the countries bordering the Mediterranean sea

metamorphosis – the process by which a young plant or animal changes into its adult form e.g. caterpillars become butterflies

hative – a plant that has always grown in England, and wasn't brought here from somewhere else

nectar – the sweet, sugary liquid made by flowers

nutrients – ingredients that are needed for healthy growth. Some soils are rich in nutrients but others, like sandy soils, are not.

perennial – a plant which lives for more than two years (in contrast to annual and biennial)

photosynthesis – the process by which plants turn carbon dioxide, water and sunlight into energy so that they can grow

Picturesque – a style of landscape or garden, especially in the late 1700s and early

1800s, that featured spectacular scenery which was broken, irregular and varied, with a sense of wildness in the planting

pollen – a fine powder, often yellow, which the male part of a plant produces

pollinator – an insect which lands on plants, picking up pollen and moving it to other plants. This helps the pollen (from the male part of the plant) transfer to the female part of the plant, aiding reproduction.



predator - an animal that hunts, kills and
eats other animals

prey – an animal that is hunted, killed and eaten by other animals

quarry – a large, deep pit from which a large amount of stone has been removed for building

rhododendrons – medium to large flowering shrubs, of which there are over one thousand different species

root – the part of the plant which attaches it to the ground, travelling into the soil to find water and nutrients, helping the plant grow

Sap – the sticky fluid which circulates around a plant. You might see this sticky substance coming out of tree trunks or plant stems.

shrubs – a woody plant which is smaller than a tree and has several small branches sticking out from a stem near the ground

species – a kind, sort or set of plants (or animals) in which the members have similar characteristics to each other and can breed with each other

stem – the main body or stalk of a plant, from which the other parts of the plant (such as leaves and flowers) grow

Terraces – an area of the garden which has been designed to have lawns and flower beds on different levels, like very broad steps

trunk – the main woody stem of a tree. The trunk gets wider every year so you can tell how old the tree is by the size of its trunk.





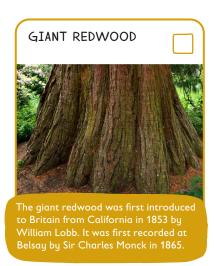
SPOTTER SHEETS

Visual checklists that can be used as stand-alone resources or alongside the garden activities provided in this kit.

With thanks to volunteer photographer Nigel Hooper for capturing many of these photos.

















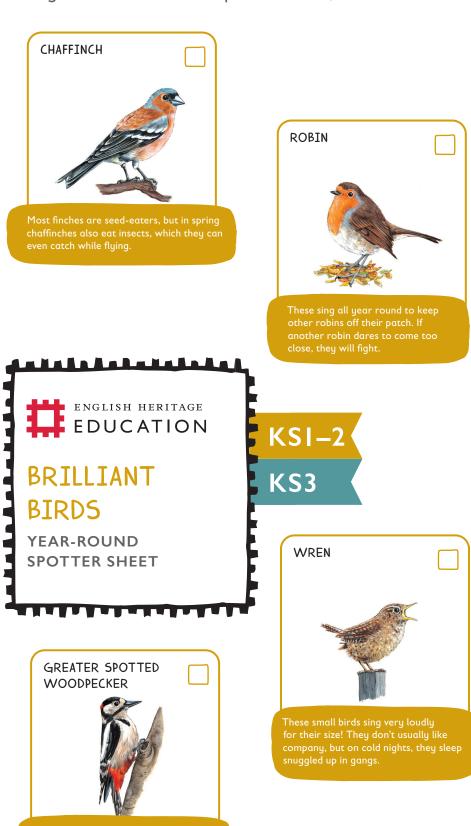


This is the only pine tree native to Britain. It was planted at Belsay by Sir Charles Monck in 1852. They grow along the top of the quarry walls, creating a shelter belt.

DID YOU KNOW?

Some of these trees are deciduous, meaning they drop their leaves in autumn and regrow them in spring. Others are evergreens; they keep their leaves all year round.

These birds have made the gardens their home so please be kind to them!



DID YOU KNOW?

BLACKBIRD

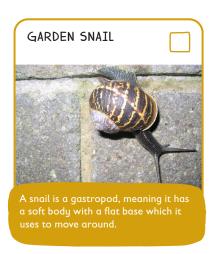
berries on them in autumn, which blackbirds love to eat, along with

worms and insects.

GOLDFINCH

Birds have hollow bones which make them lighter so it's easier to fly.

These creatures have made the gardens their home so please be kind to them!













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DID YOU KNOW?

These creatures are all invertebrates, meaning they don't have backbones.

These creatures have made the gardens their home so please be kind to them!

















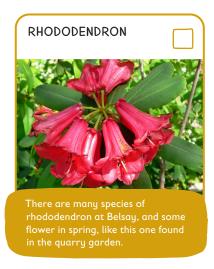


DID YOU KNOW?

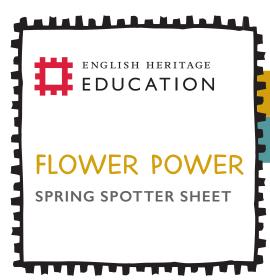
Most flying minibeasts are great pollinators, meaning they visit flowers all around the garden, picking up and spreading pollen, causing more flowers to grow.

















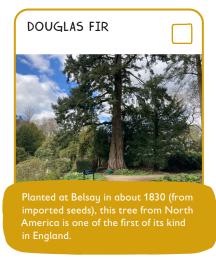


This delicate wildflower gets its name from the snakeskin pattern on its purple petals.

DID YOU KNOW?

Bulbs live under the ground for most of the year, until the flowers pop up in spring. If left alone, the plant eventually dies back and it happens all over again the next year!



















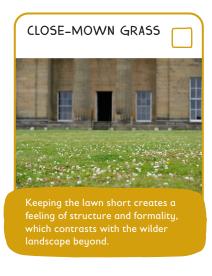
A healthy woodland has layers. The plants under the trees here are inspired by Mediterranean countries like Italy and give birds and insects a place to hide.

DID YOU KNOW?

A bit of untidiness is good for the woods. Millions of tiny creatures love the dead leaves on the ground – and these are all food for other wildlife like birds and hedgehogs.



















DID YOU KNOW?

The terraces were created close to the hall by Sir Charles Monck in the early 1800s for his family and guests to enjoy.







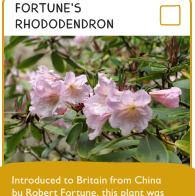












Introduced to Britain from China by Robert Fortune, this plant was recorded in the quarry garden at Belsay by Sir Arthur Middleton in 1926

DID YOU KNOW?

The climate here is different from the rest of the gardens. It is cooler and more sheltered from the wind, due to the high stone walls and fir trees planted on top.

These butterflies have made the gardens their home so please be kind to them!

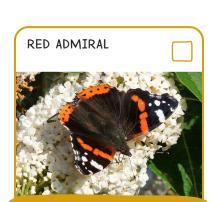












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These emerge in spring and fly through the summer, but rarely survive the winter.

DID YOU KNOW?

The mixture of trees and flowers here is great for butterflies. They like sweet nectar from flowers, but their caterpillars also need other types of plants for food.













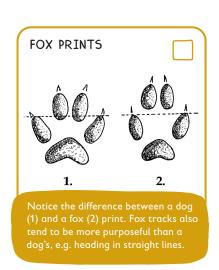






DID YOU KNOW?

In 2023, Dan Pearson, a famous garden designer, added new plants to Belsay that flower in autumn, so the gardens stay colourful for more of the year.



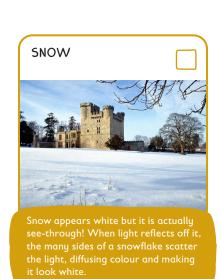




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DID YOU KNOW?

In winter, there is lots of garden activity that we don't see as plants and animals wait, hide and prepare for spring.



GARDEN ACTIVITIES

Ideas for hands-on outdoor learning experiences that suit a range of different learning styles and curriculum areas.





SELF-LED ACTIVITY ART: PICTURESQUE PATHWAY







KS2

KS3

Recommended for

KS2–3 (Art, History, Geography)

Learning objectives

- Understand the ideas behind Sir Charles Monck's Picturesque landscape design.
- Identify Picturesque features in the gardens and develop skills of orientation.
- Make connections between the hall, castle and gardens.

Location

From hall to castle, through the gardens

Time to complete

Approx. I hour



As part of his Picturesque vision, Sir Charles created a dramatic, rugged garden in the quarry.

SUMMARY

'Picturesque' describes a style of landscape or garden, especially in the late 1700s and early 1800s, that featured spectacular scenery which was broken up into irregular and varied views, with a sense of wildness in the planting.

William Gilpin first used the term in 1768. It was defined further by Uvedale Price and Richard Payne Knight as scenery suitable for painting. For further context, read about Sir Charles Monck's and Lady Mary Monck's Picturesque designs on pages 11–12.

DURING YOUR VISIT

During your visit, walk through Belsay's gardens from the hall to the castle, using the Teachers' Notes (on page 32) to stop at six different locations along the way. Use the activity suggestions to explore some of the features of Sir Charles' Picturesque vision. Each location highlights one aspect of the landscape design, breaking it down into simple ideas with clear examples.

To get the most out of this resource, each student will need a clipboard, some paper and a pencil, for making sketches and notes. We don't recommend using loose paper without a clipboard as it can get windy in the gardens.

MORE LEARNING IDEAS

Take photos of the Picturesque scenes you see around the gardens. Back in the classroom, students could use these, plus the notes they made at Belsay, to create a Picturesque landscape painting, inspired by their visit. Share your artwork with us @EHEducation.





PICTURESQUE PATHWAY TEACHERS' NOTES

PICTURESQUE FEATURE	LOCATION	ACTIVITY
I. IMPRESSIVE ARCHITECTURE	On the circular patch of grass in front of the hall.	Sketch the front of the hall. Think of some words to describe it e.g. grand, huge, classical. Now discuss what this building suggests about the man who created and lived in it, Sir Charles Monck.
2. LANDSCAPE CONTRASTS	Standing on the top level of the terraces, looking at the view.	Explore the different textures you see in the foreground and the background of this view. Note down key contrasts.
3. NEAT BEAUTY	Walking along the terraces.	Wander between the flower beds and examine the shapes and patterns of the paths, flower beds and plants.
4. SUDDEN VARIATION	Just through the door from the formal gardens, at the start of the quarry garden.	Spot the difference between the formal garden environment and the wilder quarry garden (explore sounds, sights and smells).
5. GLOBAL CONNECTIONS	In the quarry garden.	Use the 'Quirks in the Quarry' spotter sheet. Find some imported plants, and discuss where they came from and why they were important to Sir Charles.
6. EYE-CATCHING RUIN	At the castle.	Sketch the outline of the ruin from a distance. Consider what statement this building makes about Sir Charles' long family history.





SELF-LED ACTIVITY **MATHS: TREE SURVEY**







KS3

Recommended for

KS2-3 (Science, Maths)

Learning objectives

- Examine the circumference, height and appearance of a tree.
- Roughly calculate the height of a tree using Sir Arthur Middleton's method.

Location

Woodland path between formal gardens and quarry garden

Time to complete

Approx. 30 minutes



The trees along the woodland path back from the quarry garden to the formal gardens. We recommend doing this activity here.

SUMMARY

Explain to students that trunks grow outwards as well as upwards, forming a new layer of growth every year. If you sliced through a trunk you would be able to see its growth rings, and you could count them to work out how old the tree is. You can also gather information about a tree from its height and appearance.

We recommend sending each group to examine a different tree. Encourage them not to wander off and to stay visible while completing the tasks.

GROUP SIZE AND EQUIPMENT

This activity works best when working in teams of three or four, with a supervising adult.

Students will need to bring a clipboard, paper and something to write/draw with.

Ideally, you would also bring soft measuring tapes, and measuring wheels, enough for one per group.

Using the Teachers' Notes on pages 34–35, help students gather data on:

- The colour and texture of the bark.
- Seasonal observations for example, the presence of buds, blossom or fruit.
- The shape of the leaves.
- The circumference of the trunk.
- The height of the tree.

MORE LEARNING IDEAS

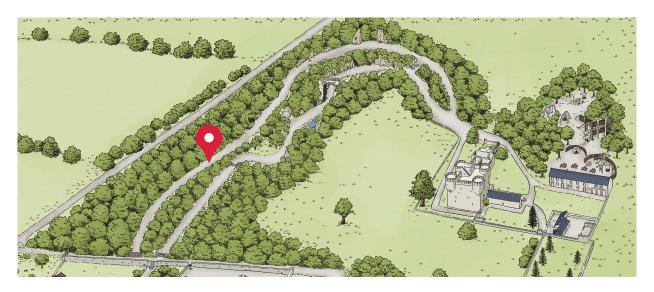
- 1. Use the 'Terrific Trees' spotter sheet in this kit to identify the species of tree you were studying, then identify some others nearby.
- 2. Identify tree types in the grounds of your school and tally the number of occurrences of each to get a sense of how diverse the area is and which trees are more or less common.





TREE SURVEY TEACHERS' NOTES

On the woodland path between the quarry and formal gardens, you will find a line of tall trees. These trees are ideal for doing this activity (see map below).



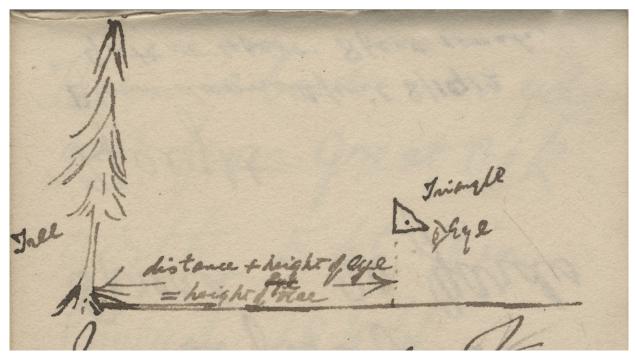
Once gathered, split your group into teams of three or four.

Each team should work together, with their measuring equipment and clipboards, to gather data on the tree:

- I. Describe the colour and texture of the bark. If safe and possible to do so, make a bark rubbing.
- 2. Make seasonal notes e.g. the presence of buds, blossom or fruit.
- 3. Draw the shape of the leaves. If you spot one on the floor, you can pick it up and draw around it.
- 4. Measure the circumference of the trunk (this is officially measured at an adult's chest height, or 1.3 metres from the ground).
- 5. Roughly calculate the height of the tree (see Sir Arthur Middleton's sketch of this method on page 34):
- a) Find a stick the same length as your arm, or grasp it at a point where the length of the stick above your hand equals that of your arm. Please be careful when working with sticks.
- b) Hold the stick pointing straight up, at 90 degrees to your outstretched, straight arm.

continued overleaf ...

- c) Carefully walk backwards until the top of the tree lines up with the top of your stick.
- d) Mark where your feet are. Measure the distance between your feet and the tree with a measuring wheel or, more roughly, by counting metre-long strides.
- e) The distance between your feet and the tree is roughly equivalent to the height of the tree.



Sir Arthur Middleton's sketch of a similar method for measuring the height of trees, from his diary: 'Measurements of Trees at Belsay 1873'. You can see the full diary page this diagram was taken from in Source 3, on page 40.

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SELF-LED ACTIVITY ENGLISH: POETREE









Recommended for

KSI-2 (English)

Learning objectives

- Use nature as a stimulus for creative writing and explore poetic techniques.
- Develop skills of imagination and creativity.

Location

All around the gardens

Time to complete

45-60 minutes



We call this the handkerchief tree because its bracts (modified leaves, visible for a short time in early summer) look like soft white tissues.

SUMMARY

During your visit, ask students to look for interesting trees to inspire a nature poem, using their imaginations to explore the creative potential of the trees.

THINKING CREATIVELY ABOUT TREES

Animals

Comparing trees to other things, like animals, can inspire similes, metaphors and personification. Visitors have noticed animal shapes in trees at Belsay, such as a reindeer, an octopus and a snake.

Textures

Observing the texture of bark, leaves, flowers and fruit can help to develop vocabulary for use in descriptive and figurative language.

Senses

Exploring trees through different senses helps students expand their vocabulary and think about different ways to describe what they are seeing, hearing, touching and smelling. Please don't pick or lick anything, though!

Personality

Imagining the tree as a character, with a personality, can help with using metaphors and personification. They might find a tree that they think looks like a cheeky elf, a friendly giant, or an ancient octopus.

Back in the classroom, spend some time making a class list of key poetic techniques such as: simile, metaphor, onomatopoeia, alliteration, repetition, form, structure, rhyme, personification and hyperbole. You could focus on a well-known form of poetry such as a limerick or haiku. Then ask students to turn the ideas they gathered at Belsay into a poem inspired by one tree they were particularly drawn to.

MORE LEARNING IDEAS

Share your finished poems with us @EHEducation.





SELF-LED ACTIVITY SCIENCE: HABITAT HEROES







Recommended for

KSI-2 (Science, Geography)

Learning objectives

- Understand how different habitats are suited to different plants and animals.
- Discuss what can be done. to look after habitats and keep them healthy.

Location

Rotate around the terraces. woods and quarry

Time to complete

60 minutes: 20 minutes in each habitat



Students will look closely at three different habitats, comparing and contrasting their features.

SUMMARY

GROUP SIZE AND EQUIPMENT

We recommend splitting your class into three smaller groups, each with a supervising adult. Ideally, you would bring magnifying glasses with you, enough for one per student, but this activity can still be done without them. You will need to print three spotter sheets from this kit: Wonders in the Woods, Treats on the Terrace and Quirks in the Quarry. You will also need a way of timing one minute, whether on your phone or by using a sand or egg timer.

During your visit, take one group to the terraces, one to the woods and one to the quarry. Once there, ask each student to find a space and close their eyes. Time one minute and get students to make a mental note of the different sounds they hear in that time. Discuss once the time is up.

Next, use the related spotter sheet to explore the habitat and identify some of its features. Explain that the soil type, levels of sunlight, and the things that live in each habitat work together to make it an attractive or unattractive home for certain plants, insects and animals. The gardens team at Belsay look after the habitats to keep them healthy and encourage biodiversity.

Now repeat the activities in the two habitats you haven't yet visited. Encourage students to compare (e.g. bright/shady, warm/cool, loud/ quiet) and discuss why they are all so different.

MORE LEARNING IDEAS

Discuss what can be done in the outdoor areas around your school to encourage different types of plants and wildlife to make it their home. Can you plant things that bees, birds and butterflies like? Could you make a bug hotel or pile up some old logs to make a home for minibeasts and fungi? How can you encourage birds and other animals to spend more time feeding and nesting in this area?



POST-VISIT

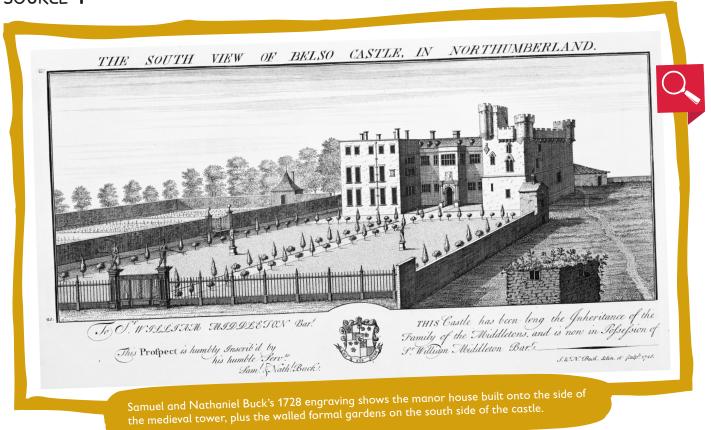
Information to help you extend your students' learning back in the classroom.



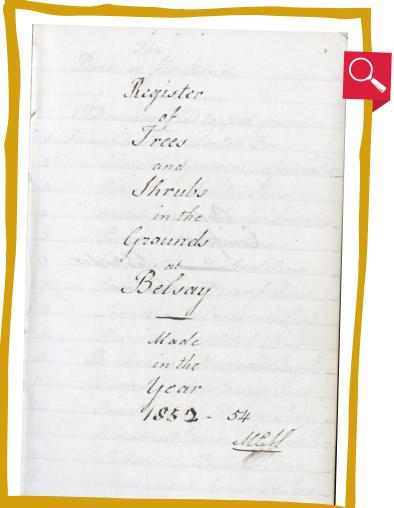


A historical source is something that tells us about life in the past, such as a document, a picture or an object. It may be a primary source, from the time, or a secondary source, created later. Our experts have chosen these sources to help you learn about Belsay's history.

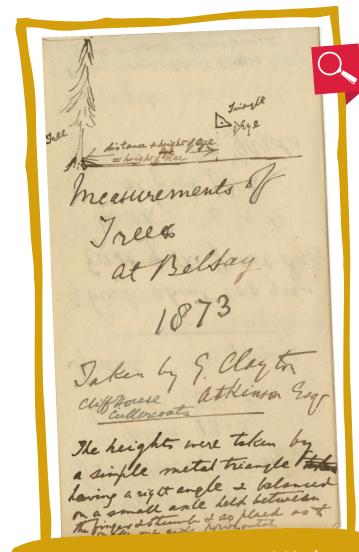
SOURCE 1



SOURCE 3 SOURCE 3

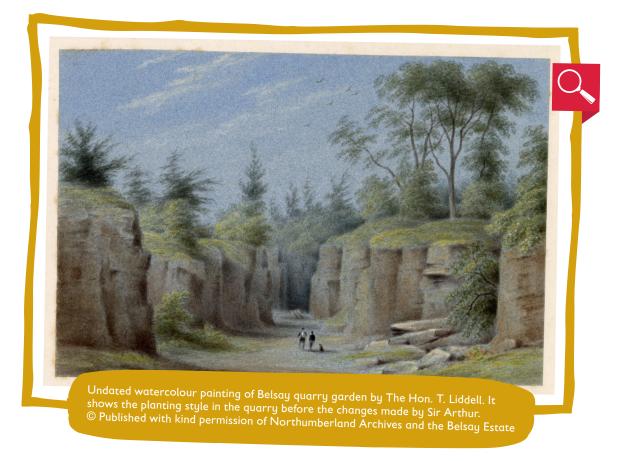


'Register of Trees and Shrubs in the Grounds at Belsay. Made in the Year 1852–54', by Sir Charles Monck. Sir Charles kept a diary about his gardening activities. He recorded daily and seasonal changes in the garden, noting ideas and instructions on how to grow certain plants. © Published with kind permission of Northumberland Archives and the Belsay Estate



Sir Arthur Middleton's notes on calculating the height of trees, from his diary: 'Measurements of Trees at Belsay 1873'. There is a diagram at the top and the text at the bottom reads: 'The heights were taken by a simple metal triangle having a right angle and balanced on a small axle held between the finger & thumb & so placed as to make one side horizontal.' © Published with kind permission of Northumberland Archives and the Belsay Estate

SOURCE 4



SOURCE 5

