

Outdoor Learning Webinar

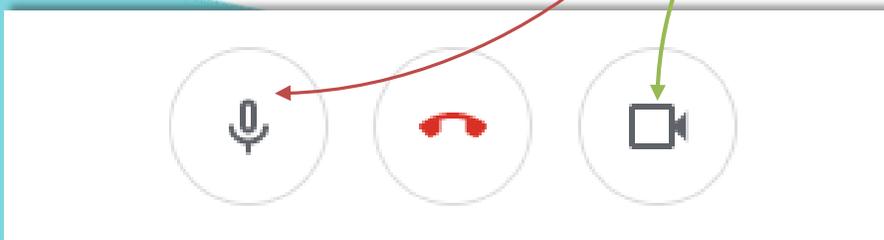
4 contexts for learning

Wednesday 2 September 2020

Welcome to the second in our series of outdoor learning webinars this session 😊

Please take note of the protocols for during the session

Please take a moment to say hello in the chat box and tell us where you are and what the weather is like there



Protocols:

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- The chat will be facilitated
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- Pin the presentation to the middle of your screen to make it bigger

Twitter: [#LearnOutdoors](#)
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For Scotland's learners, with Scotland's educators

Today's webinar is being brought to you by





@STEMedscot

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#STEMnation

For Scotland's learners, with Scotland's educators

...ces FSC
... Muir Trust have
...al learning
...Toyside freely
... (with Climate and
...rs to follow) - along
...ing information &
...adlet - for anyone to
...d help build partnerships.



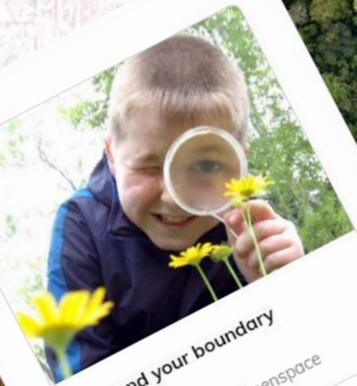
Learning for Sustainability Scotland
Learningforsustainabilityscotland



Resources | Outdoor and Woodland Learning
Owiscotland
There is a wide range of outdoor learning resources here in our Resource library. Search the library using keywords, or by topic or age and stage by clicking on the blue bar above or on the home page. OR visit the relevant pages to see a selection of our top resources.



Outdoor learning ideas | Outdoor Lesson ideas | Ltl



Beyond your boundary
Nature
Learning in Local Greenspace



Outdoor learning and Education Recovery.pdf
Uploaded PDF
Youthlink Scotland guidance on opportunities to collaborate with outdoor learning organisations.



Learn about our planet's most amazing species
WWF
Learn about some of our planet's most amazing terrestrial and marine species, and the biggest environmental challenges currently faced by our generation.



National Network for Outdoor Learning (Scotland)
Nnolscotland
We are the National Network for Outdoor Learning in Scotland. A



Learning in Local Greenspace - YouTube
youtube
Learning in Local Greenspace - How to find and access your space with S...



Learning through Landscapes
YouTube
Learning through Landscapes helps children to connect with nature, become more active, learn outdoors, develop social skills and have fun. We do this through...

Thoughtprovoking

Creative STAR Learning | I'm a teacher, get me OUTSIDE here!
Creative STAR Learning | I'm a teacher, get me OUTSIDE here!



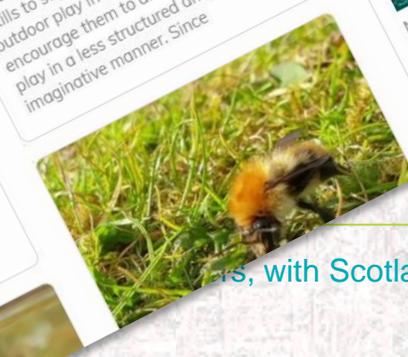
explorers | Canal & River Trust
Canalrivertrust
Free educational trips to your local canal or river. Available for schools and uniformed groups.



MerPack - Marine Education Resource Pack - COAST
COAST
This pack for primary school teachers includes fun and engaging activities with all the worksheets required. It is aimed at level 2 of the Curriculum for Excellence



Loose Parts Play Toolkit 2019 edition - Inspiring Scotland
inspiringscotland.org.uk
We are pleased to announce the publication of the revised edition of the Loose Parts Play Toolkit. The updated Toolkit provides a greater focus on helping adults develop the skills to support inclusive, all-weather outdoor play in Scotland and encourage them to allow children to play in a less structured and more imaginative manner. Since



Outdoor homework | Outdoor Lesson Idea | Learning through Landscapes
Ltl
This outdoor homework resource gives you 33 tasks over the school year for homework. It is aimed at middle primary, but can easily be adapted.



The Royal Highland Education Trust
Rhet
Next month 18th/19th June, we are working with partners up and down Scotland to bring online activities and videos about food and farming direct to young people. The Food & Farming Extravaganza that is Royal Highland Show goes online for 2020. There are



Outdoor Learning
Outdoorlearningdirectory
Scotland's Outdoor Learning Directory aims to provide a portal to services supporting outdoor learning which are provided by these Scottish organisations.



Outdoor Learning Schools - Woodland Trust
Woodland Trust
Our free, curriculum-linked resources help teachers develop outdoor learning about trees and wildlife.

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#LearnOutdoors

...s, with Scotland's educators



@STEMedscot

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#STEMnation

For Scotland's learners, with Scotland's educators



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Outdoor Learning Webinar

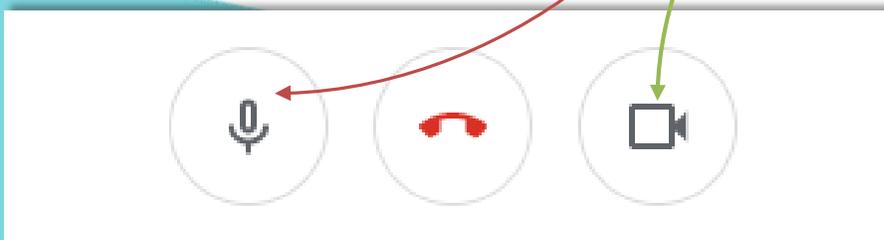
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Refreshed Narrative on Scotland's Curriculum



SCOTLAND'S CURRICULUM
FOR EXCELLENCE
Putting learners at the heart of education

<https://scotlandscurriculum.scot>

For Scotland's learners, with Scotland's educators

Opportunities for personal achievement

Interdisciplinary learning

The Curriculum

'the totality of all that is planned for children and young people throughout their education'

Ethos and life of the school as a community

Curriculum areas and subjects

Opportunities for personal achievement



- Bike Crew Committee
- Learning to cycle / scoot
- Mascots for Tour Series
- Bike Maintenance
- Cycle Awards

Interdisciplinary Learning



Pupils creating a film

P6 and P7 Co-delivering scooter sessions and balance bike training

Bike Crew organising event

The Big Cycle



- Community Event
- Bike Breakfasts over the year
- Tour Series
- Partners



Health and Wellbeing

Numeracy – calculating distances, speed, mapping skills

Literacy – designing posters, writing letters to residents,

How do Scottish Government heritage and environment agencies support outdoor learning?



A one-stop shop

Home About Us Map Search Contact Us News Links Search News

Outdoor Learning DIRECTORY

Search Outdoor Learning Directory

Search using the content based search tool or simply insert a keyword.

What are you looking for? Search by keyword

Search

RESOURCES
EVENTS & TRAINING
GRANTS
PLACES
NEWS
CONTACTS

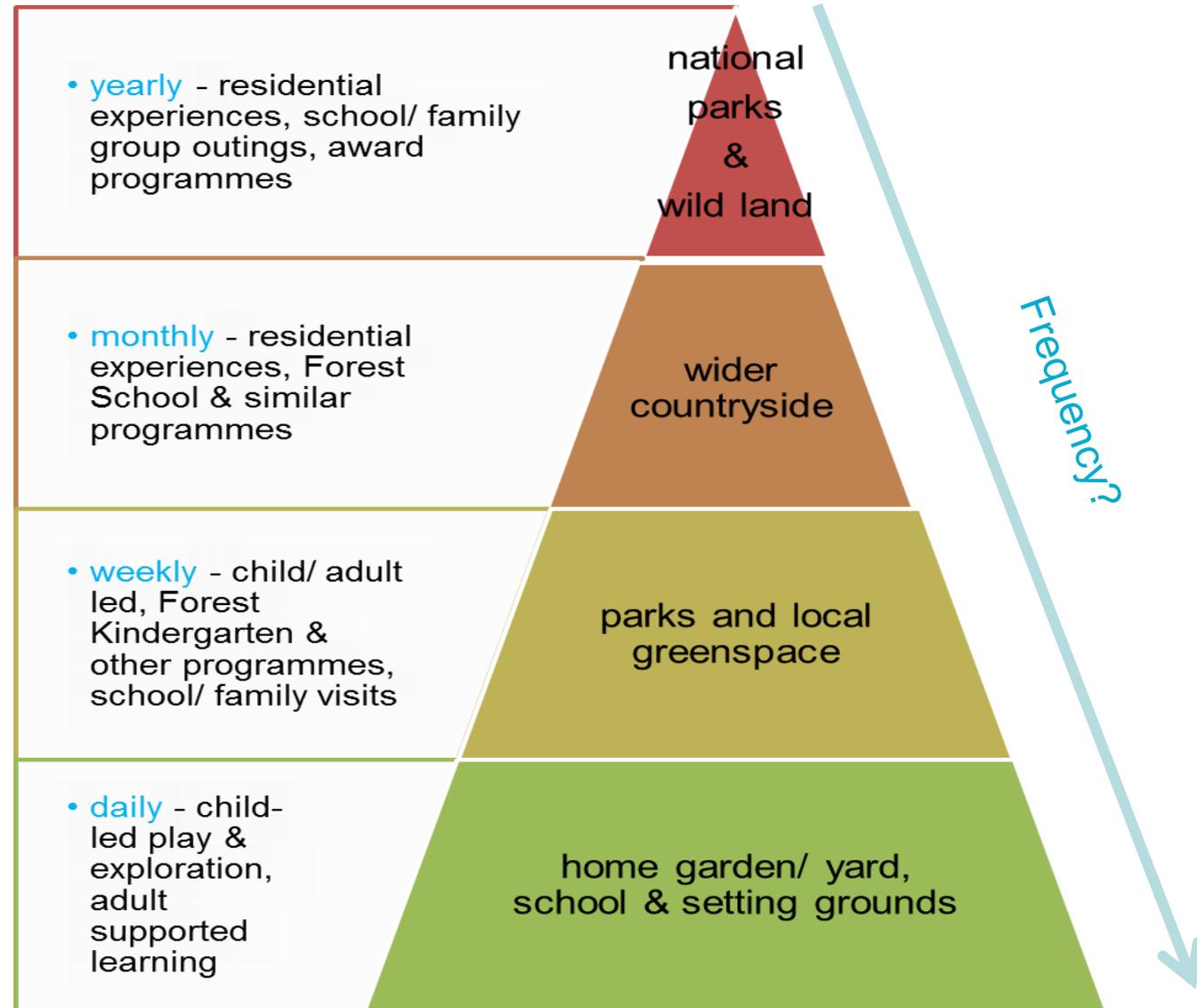
Your feedback is important to us!



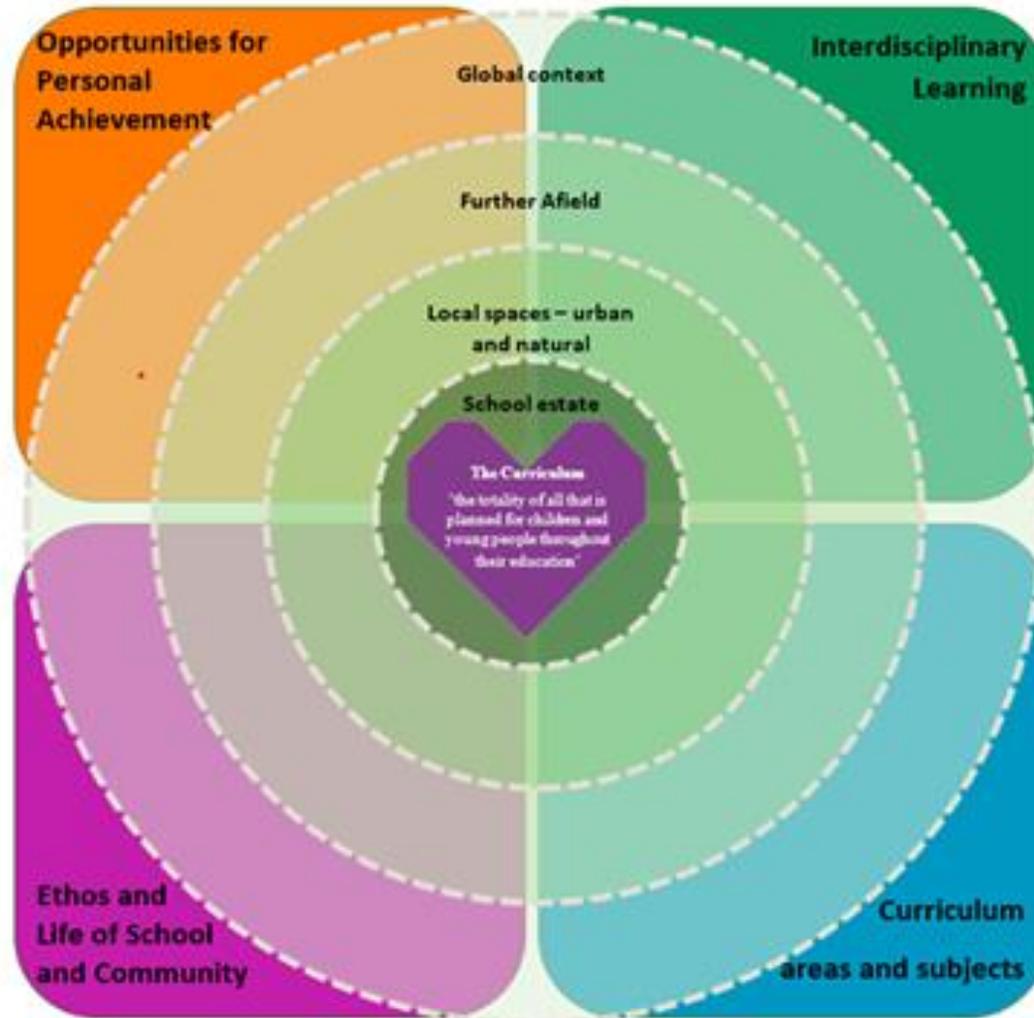
Scotland's Outdoor Learning Directory aims to provide a portal to services supporting outdoor learning which are provided by these Scottish organisations.



Learning outdoors in different places – a progression



Progression of place based learning across the 4 contexts for learning



Why learn in local greenspace?

- ✓ It is your pupils' local environment.
- ✓ Fosters in pupils a sense of place and stewardship and encourages the wider community to engage and value their local greenspace too.
- ✓ Your local greenspace is likely to be more diverse than your school grounds.
- ✓ Connection to nature
- ✓ Our Research found that “The effect of learning and play within green or natural places of all kinds... was particularly strong in generating greater engagement and challenge and enjoyment.” (source available)
- ✓ “Repeat visits [which are more feasible when using a local greenspace] made a particular difference to the quality and depth of understanding and engagement.” (source available)
- ✓ The GTCS Standards require teachers to “Use outdoor learning opportunities, including direct experiences of nature and other learning within and **beyond the school boundary.**” and “Connect learners to their dependence on the natural world and **develop their sense of belonging to both the local** and global community.”

"These learning experiences have helped to consolidate much of the theory in the topic and the pupils found it a memorable experience."

Biology & Geography Teacher, Stirling

"I didn't know how close I live to nature"

S5 pupil, Clydebank High

"I can't believe we have existed so closely to this place and never made use of it... I felt that the curricular areas were endless."

P1 teacher, North Lanarkshire

www.beyondyourboundary.scot



Scottish Natural Heritage
Dualchas Nàdair na h-Alba

nature.scot

-
- [↓](#) **Learning in local greenspace - Beyond your boundary - easy steps to learning in local greenspace**
pdf, 6.72MB
 - [↓](#) **New - Professional Learning - 6 steps to using local greenspace for outdoor learning**
pdf, 2.47MB
 - [↓](#) **Learning in local greenspace - greenspace audit**
docx, 2.19MB
 - [↓](#) **Learning in local greenspace - Questionnaire to inform action plan**
docx, 2.20MB
 - [↓](#) **Learning in local greenspace - Action Plan template**
docx, 2.21MB



NatureScot

Scotland's Nature Agency
Buidheann Nàdair na h-Alba



Why learn in local greenspace



Finding your local greenspace



Accessing your local greenspace



Using your local greenspace

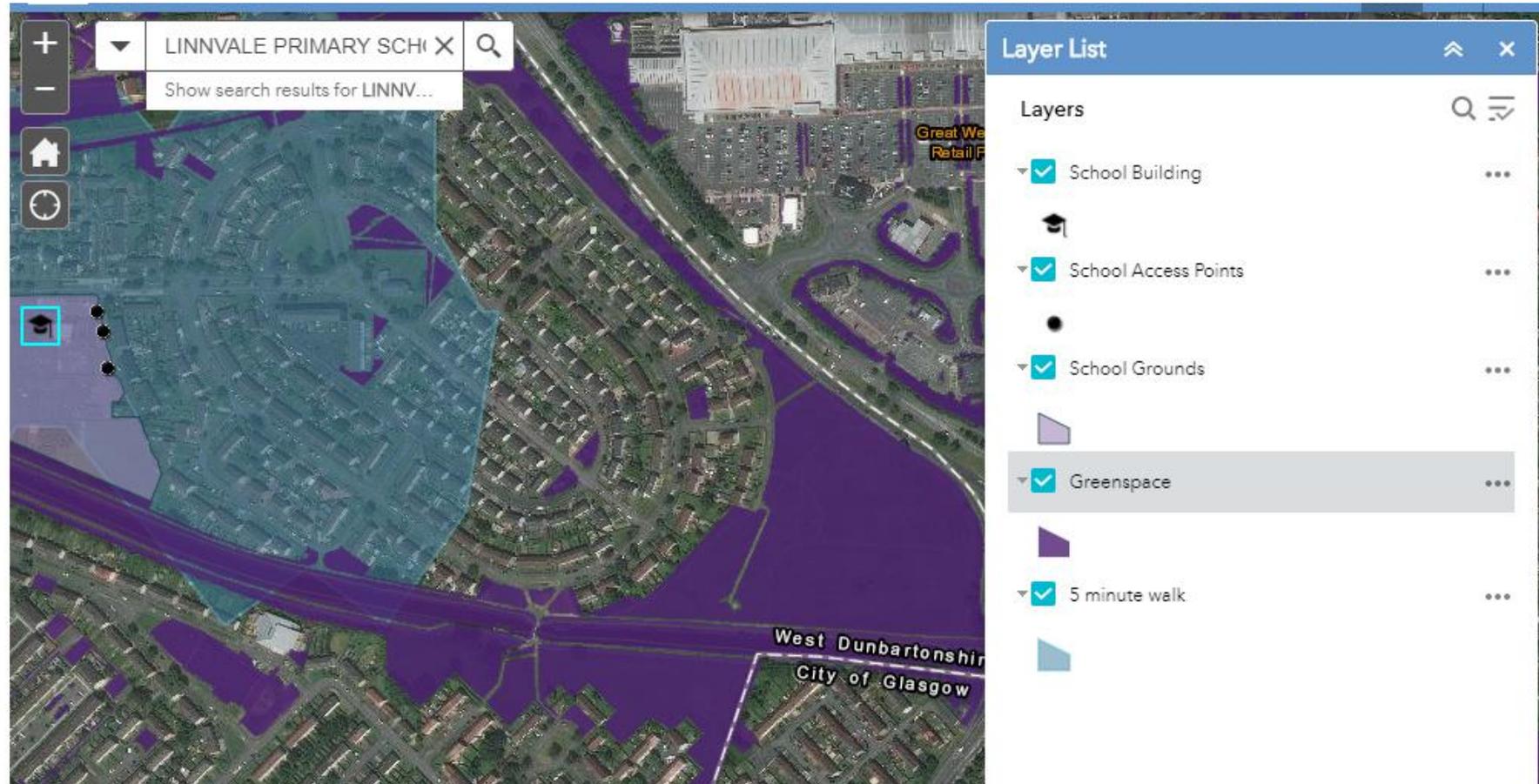


Improving your local greenspace



Spreading & embedding learning in local greenspace

<https://www.nature.scot/professional-advice/education/greenspace-map-outdoor-learning>



Using your greenspace: policies, procedures, routines



Plan ahead for:

- ✓ adverse weather: when is it too bad to go/so bad you must leave early?
 - ✓ if you encounter anti-social behaviour: can you move to another area; when must you leave all together?
 - ✓ if a pupil needs to return to school: will the whole group return or will one adult go back?
 - ✓ if a pupil is 'lost': different responses are required according to your location, the age of the pupil and length of time they have been missing.
-
- ✓ **Develop routines with the pupils for:**
 - ✓ establishing today's learning area/boundary.
 - ✓ assessing and mitigating risk on arrival and during the session.
 - ✓ how to behave when approached by a wasp; dog; or person from out with the group.
 - ✓ handwashing and sun cream or insect repellent application.

Opportunities for personal achievement

J has a very pronounced aversion to touching anything soft/ goeey/ wet/ squidgy... he was picking up pieces of Old Man's Beard lichen from the woodland floor, wet leaves and even held a wet leaf with a small slug sleeping on it.

Robert Owen Primary School, SLC



Interdisciplinary Learning



B got a pair of sticks and found that he could make fun sounds by hitting them together. He then went on to explore the different sounds the sticks made when hit against different trees. He found that he could make music like this. "Look! I'm making music!" After that, he was in a flow of using the sticks in different ways. He stacked them in the fork of a tree and tied rope around it. He then took the sticks and made a square on the ground with a face in it. "I'm never as creative as this!"

Crawforddyke Primary, SLC

The Curriculum
'the totality of all that is planned for children and young people throughout their education'



K never liked going outdoors and was always a chore if asked to go out to play. Now we take walks and he tells us everything he has learned at Forest School... Visiting local woodlands is part of our family now.

St Mary's, SLC

One of the P7 girls has a new-found fascination for pond life. She was able to use the ID charts to identify the beasties she was catching in her net and was determined to try and catch at least one of everything.

Crawforddyke Primary, SLC



Ethos and life of the school as a community

Curriculum areas and subjects



Level	Progression: Woodland	Place	Nature
Early	What is a tree? Discovery, using all senses, and very interdisciplinary DYW	School grounds and local spaces AND indoors	Emotional connection to trees and their environment: being with trees, enjoying, observing and experiencing.
First / Second	What is a woodland? What is sustainable forest management? Using local sites to discover Scottish woods/forests DYW		Cognitive connections: developing knowledge of the woodland environment, resources and multiple benefits
Third /Fourth	Global forests and our impact on them DYW	As above with progression to places further away, including globally (online /botanic gardens) AND indoors	Understanding own and others impact on nature and why sustainable management is needed
Senior Phase	Subject based DYW		Personal positions, values and beliefs about our forest resources now and in the future. Influencing society as an active, responsible and ethical citizen



Resources

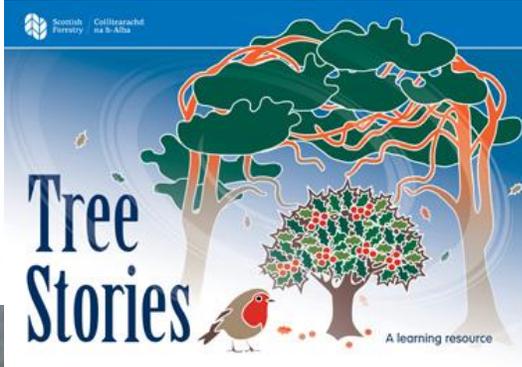
Subject/
Interdisciplinary

Literacy, Maths and
Health and Wellbeing



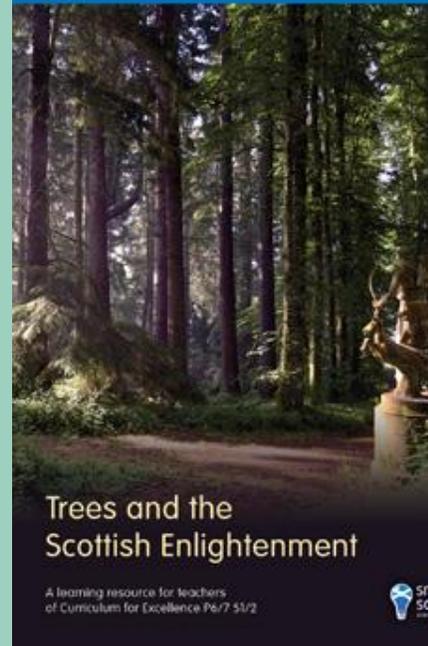
The Woodland Workout
Physical Activities

A resource for educators



TREE MEASURING

Connecting Trees with Curriculum for Excellence

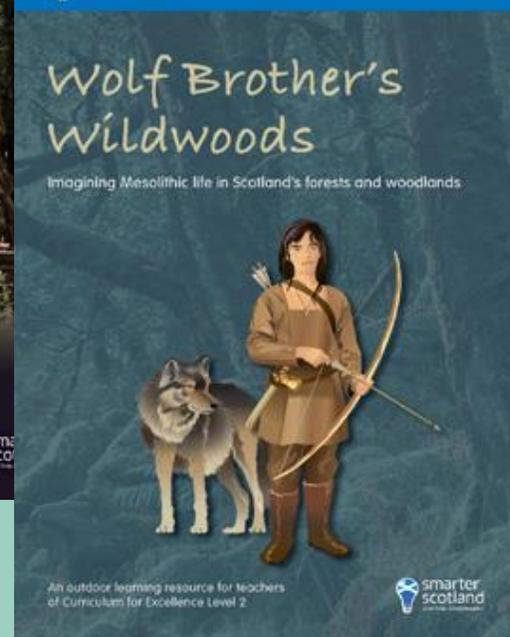


Trees and the
Scottish Enlightenment

A learning resource for teachers
of Curriculum for Excellence P6/7 5A/2



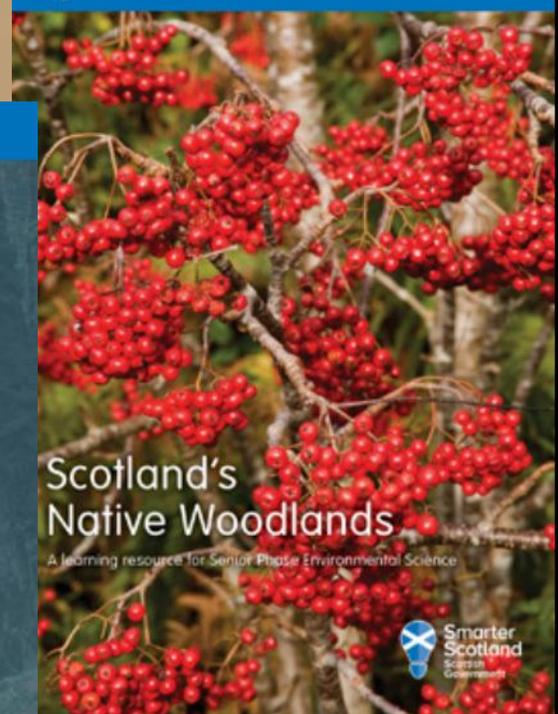
The world beneath our feet
Connecting soils and curriculum



Wolf Brother's
Wildwoods

Imagining Mesolithic life in Scotland's forests and woodlands

An outdoor learning resource for teachers
of Curriculum for Excellence Level 2



Scotland's
Native Woodlands

A learning resource for Senior Phase Environmental Science





Scottish
Forestry

Coilltearachd
na h-Alba

Outdoor and Woodland Learning Scotland OWLS

The screenshot shows the homepage of the Outdoor and Woodland Learning Scotland (OWLS) website. At the top left is the Scottish Forestry logo. The main navigation menu includes Home, About Us, Local Groups, Learning, Resources, Events, and Contact Us. A search bar is located below the navigation, with links for Resources, Find an OWL Group, and Training & Events. The central banner features a photograph of a group of people in a forest, with the text "Providing training and support for teachers and practitioners". Below the banner, there are sections for "News and events from the network" and "Events Calendar". The "News" section shows a post from 08 June 2020 titled "Owl Group Events" with a sub-heading "DGOWL online Meeting". The "Events Calendar" shows the month of August 2020.

www.owlscotland.org

<https://www.facebook.com/groups/101821253217957/>

AND the Outdoor Learning Directory
<https://outdoorlearningdirectory.com/>

forestry.gov.scot



Outdoor Learning in the National Park

A RED SQUIRREL SCHOOL PROJECT IN PARTNERSHIP WITH
SAVING SCOTLAND'S RED SQUIRRELS

ALI CUSH, EDUCATION AND INCLUSION ADVISER

LOCH LOMOND & THE TROSSACHS NATIONAL PARK

Red Squirrel success story

- Our key partner in conserving this threatened species is 'Saving Scotland's Red Squirrels Project'.
- Thanks to the hard work of the project and other partners, the red squirrel population is expanding across the National Park.
- They are now in the vicinity of most of the Primary Schools within Loch Lomond and The Trossachs National Park.



Primary Schools' Red Squirrel Roadshow

- Project Overview
 - Aimed to raise awareness of the iconic red squirrel by engaging with Primary Schools in the National Park.
 - Delivered in September in the run up to Red Squirrel Awareness Week – before squirrel activity quietens down.
 - Offered two interactive sessions to each of the schools participating covering red squirrel ecology, threats and conservation.



Primary Schools' Red Squirrel Roadshow

- Supported each school to continue learning about and helping their local Red Squirrel population by providing a feeder box and seed mix to keep and a camera trap on loan.
- Schools installed the feeder boxes in their school grounds and positioned the cameras to record any visitors to the boxes.
- Pupils monitored their camera recordings for wildlife visiting the school grounds.



Primary Schools' Red Squirrel Roadshow

- Key Outcomes
 - Support 9 local schools in the National Park – either targeted year group (P6/7) or, for small rural schools, the entire school.
 - Support schools completing a John Muir Award – Discover, Explore and help to Conserve Red Squirrels.
 - Increase awareness of the Red Squirrel Sightings project in the National Park – and increase the number of sightings recorded
 - Increase awareness of the Red Squirrel Awareness week events.

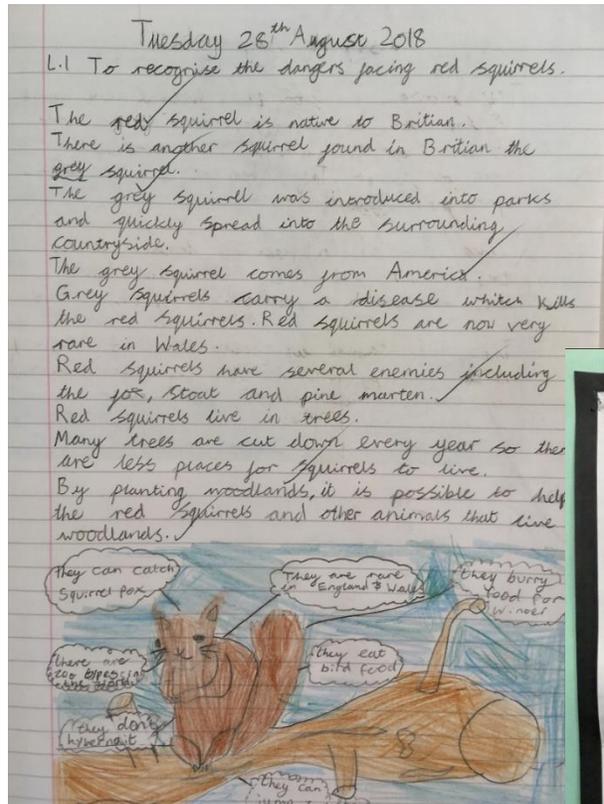


Curricular support

- STEM – Citizen Science, invasive species, habitats, microscopes.
- Literacy – personal writing.
- Expressive Arts – school poster displays.
- ICT – uploading and viewing the videos from the cameras.
- Health & Wellbeing – Being out and active in the school grounds.
- Learning for Sustainability – understanding their role in conserving this native species.



Examples of pupils work



Wider School community – Twitter posts



Fantastic video footage from our @Bushnell camera, loaned to us from @lomondtrossachs of red squirrels behind the school @ScotSquirrels #RedSquirrelAwarenessWeek Just one of many fantastic videos including one of a pine marten!



706 views



Feedback

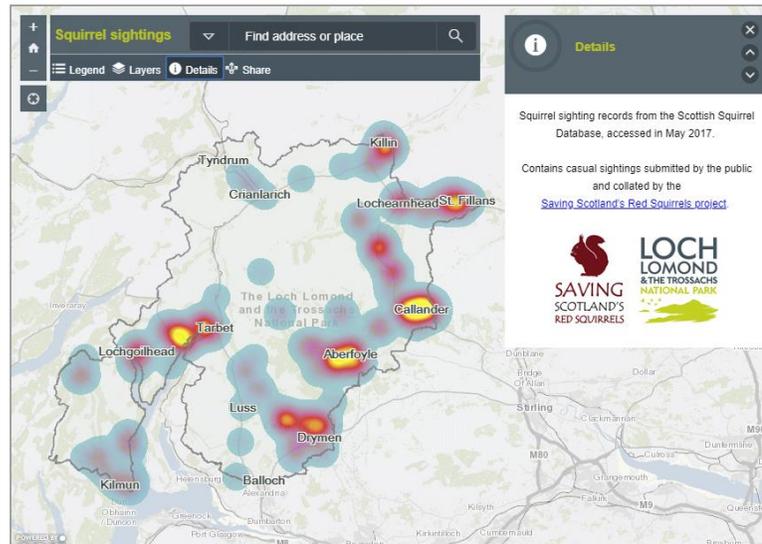
“Linked in well with our 'Living in the Trossachs' topic.”

“The children were eager to record sightings of red squirrels and think of ways to help protect them - especially regarding traffic and sources of food.”

“Children thoroughly enjoyed all activities, in particular seeing the footage that was taken on the camera installed within the school grounds.”

Resources for older pupils

- Case Studies – National 4/5 and Higher resources
- Sightings maps and spatial data
- Practical Conservation and Volunteering



BIODIVERSITY & CLIMATE CHANGE IN THE NATIONAL PARK **CASE STUDY 2**

Red Squirrel Conservation

INTRODUCTION

The red squirrel *Sciurus vulgaris* is one of our most popular and well-loved mammals but they are in danger of becoming extinct in Scotland.

There are less than 120,000 red squirrels remaining in Scotland which is about 75% of all of the red squirrels in the UK. Compare this to 2.5 million grey squirrels in the UK!

Historically large areas of native woodland across the country have been lost due to de-forestation and changes to land management practices, and red squirrels are also threatened by the introduced North American grey squirrel, *Sciurus carolinensis*.



Loss of habitat

The cover in Scotland used to be so extensive that a red squirrel could have travelled from one side of the country to the other without touching the ground.

Following a long history of land use change, the small, isolated fragments left over from Scotland's once huge native woodland could not support our red squirrels. Modern-day woodland planting is helping to turn this around. With help from Scottish Forestry we're making sure large areas aren't felled all at once but in stages so red squirrels always have access to a suitable habitat.



The spread of American grey squirrels and squirrelpox

The non-native grey squirrel was introduced in Britain by the Victorians. This American cousin of our native red squirrels have spread out in our woodlands and ended up as neighbours to our red squirrels.

Grey squirrels are twice as big as red squirrels and can digest food such as acorns easier and get more nutrients from them. This means that grey squirrels need more food than reds and can utilize acorns better. They have also been found to steal food that red squirrels have saved up for overwinter leaving the reds hungry. They also carry a virus called squirrelpox which can be fatal to our native reds. Grey squirrels are carriers of the disease but they are resistant to it themselves.



Red Squirrel trails and places to visit

- Balmaha— Red Squirrel interpretation in Visitor Centre and trail through the woods.
- Aberfoyle – The Lodge Visitor Centre and wildlife viewing hide.
- Benmore Botanic Gardens – Red Squirrel trail and viewing hide.
- Argyll & Queen Elizabeth Forest Parks



Outdoor Learning in the National Park



- Free outdoor learning support through our Ranger Service.
- National Park Travel Grant to contribute towards the costs of travelling to and around the National Park – including Active Travel.
- Partnerships with the John Muir Award.
- Resources available on our website.
- Contact education@lochlomond-trossachs.org for more info

Thanks

Learning across the four contexts: Local & Global Learning

Opportunities for personal achievement

Our Rainforest Adventure turns children into rainforest glasshouse guides so they can share their learning with others.



Interdisciplinary Learning

Studying plants in our glasshouses using our senses to compare plant diversity from all over the world with the flora of Scotland.



The Curriculum

'the totality of all that is planned for children and young people throughout their education'

Growing food together to address learning for sustainability themes – seasonal local food; food security and learning about the need to share global resources.



Advanced Higher Biology students learning about plant taxonomy with our scientists using our global collections in RBGEs herbarium.



Ethos and life of the school as a community

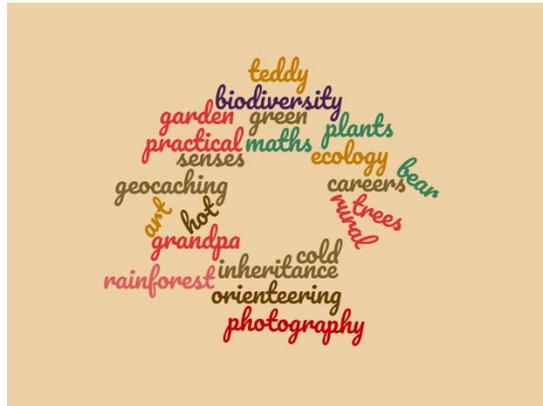
Curriculum areas and subjects

RBGE Educational Offering

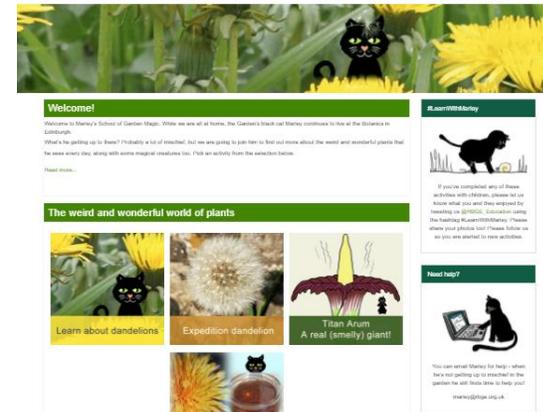
If I say RBGE...(what's the first word that comes into your head...type in the chat!)

We offer a range of experiential inter-disciplinary and cross-curricular, outdoor learning programmes for EY – Upper Secondary including ASL

- Previously:



- Now:



- Things you probably didn't know about RBGE:
 - Online resources available
 - Advanced higher biology project support
 - Has a plant collection of 13,500 species in its 116 hectares of Garden
 - Describes on average 36 new species per year



Post Covid

We can't wait to welcome you back!

- what do you need from us? New delivery models?
- Focus on:
 - Nature prescribing – helping you handle the impact of Covid on you and your pupils
 - CLPL in outdoor learning - Maths for early years, Investigating plant lifecycles and Science on your plate
 - Employability – world of work week, virtual work placement, circular economy projects
 - Equality and Diversity – plants as a means of explaining diversity. Connecting classroom opportunities with our global field project schools



Royal Botanic Garden Edinburgh



Benmore Botanic Garden



Logan Botanic Garden



Dawyck Botanic Garden

At present only self guided access
(14th September onwards)

From early 2021 - 2 sessions being offered onsite:

- P1 – 3: Explore the garden using your senses
- P4 - 7: Finding Lost words at the garden



Now for some 'practical' work...





THANK YOU!

@STEMedscot

#LearnOutdoors

#STEMnation

For Scotland's learners, with Scotland's educators

Outdoor learning/Learning for Sustainability Wakelet

<https://wakelet.com/wake/dx8-511rFvLFU03cIV9eh>



Learning for Sustainability Scotland

Learningforsustainabilityscotland

A new Publication Celebrating Award-Winning RCE Project Contributions to Education for Sustainable Development has been produced, including one of Learning for Sustainability Scotland's award winning...



Home - Wildlife Watch

Wildlifewatch

Wildlife Watch is the junior branch of The Wildlife Trusts and the UK's leading environmental action club for children and families.



Backyard BioBlitz

Facebook

Backyard BioBlitz are videos and quizzes online (via Facebook). It is about monitoring wildlife in our own backyards, to explore the biodiversity around us while staying close to home. Remember



MerPack - Marine Education Resource Pack - COAST

COAST

This pack for primary school teachers includes fun and engaging activities with all the worksheets required. It is aimed at level 2 of the Curriculum for Excellence



Outdoor learning ideas | Outdoor Lesson ideas | Ltl

Ltl

Hundreds of free outdoor learning ideas from Learning through Landscapes, ideal for forest school and curricular led lessons.



316 5:01 PM - May 25, 2020

180 people are talking about this



Outdoor Learning

Outdoorlearningdirectory

Scotland's Outdoor Learning Directory aims to provide a portal to



John Muir Award - John Muir Trust

Johnmuirtrust

Our engagement initiative encourages people to connect with,



Outdoor learning ideas | Outdoor Lesson ideas | Ltl

Ltl

Our free outdoor learning ideas and outdoor lesson plans are below, ideal for curricular led outdoor



The Royal Highland Education Trust

Rhet

Next month 18th/19th June, we are working with partners up and down Scotland to bring online activities and videos about food and farming direct to young people. The Food & Farming Extravaganza that is Royal Highland Show goes online for 2020. There are a variety of activities scheduled including quizzes, videos, live feeds and the opportunity to cook along at home.



Thank you



Outdoor Learning Webinar Evaluation

<https://bit.ly/2FwUZNP>

Share your outdoor
learning, and tag us at
@STEMedscot
#LearnOutdoors