

Workshops

- Maps and mapmaking - the art of maps; maps for running - orienteering
- Food - developing a vegetable garden; practical ways to explore the food cycle with local producers.
- Creative writing from nature
- Sounds and images of nature - ICT and digital technology - taking sounds and images from nature
- Woodland crafts - making things from nature
- Art in the environment
- Art and mythology
- Creative options for fieldwork in biology and geography.
- Drama outdoors
- Outdoor Survival - bushcraft

Some workshop leaders

Michael Platt

has a national reputation as one of the leading dance in education practitioners. He has just completed a dance film with Peter Anderson and 150 young people based on the farming year and filmed on location in farms, fields and factories in mid Suffolk.

Ann Osbourn

is a leading academic in the field of plant biology, but also has a passion for writing. Anne used her enthusiasm for inspiring schoolchildren about science to develop **'science, art and writing' (SAW)** projects in local schools. SAW is currently establishing science, art and writing projects in schools worldwide.

Wendy Titman

is the author of the seminal study, 'Special Places, Special People - the Hidden Curriculum of School Grounds', which identified for the first time the impact of the design and management of grounds on pupils' behaviour. During the last 15 years, Wendy has worked with a range of government departments including the DfES & DETR and LAs.

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"Learning outside the classroom should be at the heart of every school's curriculum and ethos."

(Education and Skills Secretary, Alan Johnson)

*Now, to pry into roots, to finger slime,
To stare, big-eyed Narcissus, into some spring
Is beneath all adult dignity. I rhyme
To see myself, to set the darkness echoing.*

(Seamus Heaney, *Personal Helicon* – For Michael Longley)

Primary, Secondary, Special and Early Years

The 'Learning Outside the Classroom Manifesto' testifies to the power of outdoor learning and the importance the government gives to the uses of places other than the classroom for learning. *"There is strong evidence that good quality learning outside the classroom adds much value to classroom learning. It can lead to deeper understanding of the concepts that span traditional subject boundaries....It provides a context for learning in many areas: general and subject-based knowledge; thinking and problem-solving skills; life skills such as co-operation and interpersonal communication."*

'Set the Darkness Echoing' has workshops and ideas for teachers in all schools and all phases. For primary and nursery teachers the foundation curriculum offers the ideal structure to learn outdoors and there are countless examples of good practice in Norfolk. One strand of workshops will focus just on early years.

The conference will also support delegates in addressing the Every Child Matters outcomes, from a focus on staying healthy - developing a greater understanding of food and growing and cultivating; to enjoying and achieving through animating the curriculum and supporting children and young people to have rich, sensory educational experiences.

Secondary colleagues, whether teachers of: English, science, geography, PE, ICT, music, dance and drama will find workshops that address their curriculum needs and offer opportunities for exciting cross-curricular models of working. Special school colleagues will find a series of workshops that address the particular needs of their children for example, practitioners who want to use the sensory curriculum to access learning about the environment.



set the darkness echoing

Learning in and through the environment



a cross-phase, cross-curricular,
two-day conference

June 8-9, 2007

Houghton Hall
near Fakenham, Norfolk

What is 'Set the darkness echoing'?

An exciting, two-day event for primary, secondary and special school teachers on June 8-9 (Friday and Saturday) at Houghton Hall, near Fakenham. Over the course of the two days in the idyllic grounds of Houghton Hall you will be excited and stimulated; see fresh connections between subject areas; explore ways of invigorating the curriculum by anchoring it into the natural environment and have the chance to learn from some of the very best practitioners in the county and beyond.

Why now?

The Government is committed to supporting learning outside the classroom an integral part of school life. The launch of the 'Learning Outside the Classroom Manifesto' sets out specific

measures to help schools widen access to high quality educational experiences for every young person. Norfolk County Council Children's Services support the Manifesto because we believe that by working together we can provide many more opportunities for children and young people to experience the world beyond the classroom as an essential part of their learning and development.

Value of Outdoor Learning

Quality outdoor learning experiences can raise achievement across a range of subjects and develop better personal and social skills. When these experiences are well planned, safely managed and personalised to meet the needs of every child they can:

- Improve academic achievement.
- Provide a bridge to higher order learning.
- Develop skills and independence in a widening range of environments.
- Make learning more engaging and relevant to young people.
- Develop active citizens and stewards of the environment.
- Nurture creativity.
- Provide opportunities for informal learning through play.
- Reduce behaviour problems and improve attendance.
- Stimulate, inspire and improve motivation.



Pictures from 'Green Space Blue Sky', a Creative Partnership event in Cornwall, May 2005



Image is courtesy of Martin Sercombe of Media Project Eastst

- Develop the ability to deal with uncertainty.
- Provide challenge and the opportunity to take acceptable levels of risk.
- Improve young people's attitudes to learning.

Why Houghton Hall?

The conference offers the space to think and inspire creative thinking and learning. The grounds of Houghton Hall feature a collection of landart by internationally renowned artists which has been developed into an exciting, curriculum-linked arts and outdoor learning programme called Artlandish (www.artlandish.norfolk.gov.uk). The course will allow delegates to sample this resource. Lord Cholmondeley and the estate have kindly permitted access to the site.

What will it cost?

The cost for the two days to include food and accommodation is £250. Bursaries are available to small schools (100 pupils or less) with teaching Heads to cover supply cost for the Friday of the course.

What is distinctive about the course?

- It uses creative partners to deliver workshops and offers the chance for them to work with schools to develop ideas further.
- Unusual, creative starting points for creative journeys from the natural maths of plants to myths and legends and the magic of the outdoors; dance, drama and the environment.
- For secondary colleagues a focus on cross-curricular links – art and science; geography and English; maths and biology.
- Curriculum ideas that explicitly seek to develop and explore creative thinking.

How will it work?

Workshops will be followed by periods of reflection and opportunities to plan closely with workshop leaders and facilitators.

Who will be leading workshops?

An exciting range of speakers from across the eastern region will be there exploring ways to use the environment as a creative stimulus for learning. We have: storytellers; sculptors; dance instructors; headteachers from best practice schools that are developing exciting outdoor learning opportunities; curriculum advisors and a ballistic engineer!

Eastfeast

The conference offers delegates the chance to find out more about the 'Eastfeast' project, a successful series of linked creative programmes originally developed in Suffolk. This is an exciting initiative that uses outdoor, creative learning experiences to enable students to cultivate and cook their own food – usually culminating in a celebratory feast for the local community. Supported by local artists and gardeners students express their feelings and experiences through: composition, song, poetry, drama, etc. exploring the school's local heritage, and engaging with local people. Joint professional development of artists and teachers has been a key characteristic and crucial to the success of all Eastfeast work.

What is Creative Partnerships?

Creative Partnership is an initiative set up by Department of Culture Media and Sport and the Department for Education to establish creative partnerships between creative organisations and schools for the long-term development of creative learning. Norfolk schools have been involved in the programme for over four years and while funding for the two pilot clusters at North Walsham and Costessey has ended, work continues with nine schools in Great Yarmouth and in taking the philosophy of Creative Partnerships to the rest of the county.

Does Creative Partnerships work?

In a survey of over 400 schools involved with Creative Partnerships for a significant period of time the impact of the programme was considerable:

- Headteachers thought that their schools involvement with Creative Partnerships had improved pupils' confidence (92%), communication skills (91%) and motivation (87%).
- Headteachers also felt that involvement with Creative Partnerships had improved pupils' enjoyment of school (76%), ability to learn independently (76%) and behaviour overall (57%).
- Over three quarters (79%) of headteachers agreed with the statement: 'being involved with Creative Partnerships has made a real contribution to raising the educational standard in our school'.

Your ref:
My ref:Email: adrian.gray@norfolk.gov.uk

Date: 2 April 2007

Please ask for: Adrian Gray
Contact Number: 01603 433276

Dear colleagues

I am delighted to offer you the opportunity to be involved in an exciting two-day outdoor learning conference – 'Set the darkness echoing'. The conference at Houghton Hall on 8th & 9th June will enable delegates from primary, secondary and special schools to be involved in a vast array of workshops on topics from dance in the environment to numbers in nature. The attached leaflet outlines more about the event.

At this early stage I would like to get an indication of interest in the event and in the workshops on offer so that I can make more detailed plans. I may be offering places at the conference to schools outside the county but wanted to offer it to Norfolk schools first. I am interested in knowing:

- which of the workshops you would most like to attend;
- whether you would be interested in overnight accommodation.

Accommodation: The event runs from 9.00am on Friday 8th June to 5.00pm on Saturday 9th June. Activities on the first day continue until 7.30pm. In order to get the full experience of the event and for environmental reasons delegates are welcome to sleep over at the site. There is a range of options for accommodation:

- Delegates can bring their own tents to Houghton.
- We can make use of the yurts and tents used for workshops for communal sleeping.
- A hostel fourteen miles from Houghton has sleeping accommodation which I can book for a small additional charge.

Workshops: The attached document outlines the range of possible workshops for the weekend, while I would welcome your expression of interest in these workshops I cannot guarantee that they will all be available on both days.

Booking your place: To express an interest in the event please complete the form below and I will reserve you a place until 1 May when I will require a £50 deposit.

Yours sincerely

Adrian Gray
Programme Manager, Creative Partnerships

‘Set the darkness echoing’ Conference: Expression of Interest

Houghton Hall – 8 & 9 June 2007

Name:

School:

I am interested in attending this conference on 8 – 9 June ☐

I would like overnight accommodation in:

- ☐ My own tent
- ☐ A shared tent at Houghton
- ☐ A nearby hostel
- ☐ I would prefer to travel home

I am a teaching Head in a small school (less than 100 pupils on roll). I would like a bursary to cover supply cost for Friday June 8. ☐
Please tick box if this applies.

Please return this form for the attention of:

ADRIAN GRAY
Children's Services
Creative Partnerships Programme Manager
Professional Development Centre
Woodside Road
Norwich
NR7 9QL

OR fax to 01603 708074

OR complete electronically and email to adrian.gray@norfolk.gov.uk



Norfolk County Council

‘Set the darkness echoing’ workshop booking form

Name:

School:

Workshop choices (please indicate your five top choices from workshop list below)

Leader	Title	My choice
Martin Robinson	Bringing the Outside, Inside	
Colly Mudie	Colour from Nature – investigating natural plant dyes	
Jo Rolfe	Changing Seasons – creative responses	
Fairyland Trust	Crown workshop	
Michael Platt	Dancing the Environment	
Wendy Titman	Developing grounds for early years	
David Yates	Developing your school's grounds	
Mary Pendered, Bob Pendered	Eastfeast – From seed to feast!	
Meg Amsden	Ecopuppets	
SWAC	History of Waste	
Hetty Selwyn	Knowing Food	
Liz McGowan	Living Places	
Rob Lodge	Making Landscapes – geographical imaginations and processes	
Mary-Jane Edgar	Medicine Wheels	
Martin Sercombe and Britta Polmuller	Natural Soundscapes	
Gary Winter/Mike Roper	Orienteering	
Jeni Smith	Reflective classrooms	
Lys Flowerday	Revistas	
SAW (Science and writing) Trust (Art)	SAW Outdoors – ART	
SAW (Science and writing) Trust (Writing)	SAW Outdoors – WRITING	
Gill Brigg	'Sensing the Forest'	
Hetty Selwyn	Sowing seeds and finding new ways	
Paul Jackson	Storytelling in the outdoors	
Meg Amsden	The Rubbish Monster	
Patrice Baldwin	Touching the Earth	
Liz McGowan	True Places	
Martin Sercombe and Britta Polmuller	Video Art in the Landscape	
Lys Flowerday	Vistas	
Gilles Bourlet	Walking with Numbers	
Fairyland Trust	Wand workshop	
Karen Hansen	Wind Turbines: spinning axels and social science	
David North	Woodland Explorer session	
Sue Falch-Lovesey & Constance Tyce	Young Children in the 'Forest!'	

Workshop Outlines – ‘Set the darkness echoing’

Martin Robinson

Bringing the Outside, Inside

Through an exploration of the environment participants are taken on a journey through the Norfolk Countryside at different times of day. Along this journey we stop at various destinations, collect mementos, thoughts, sounds, smells, tastes, memories both individual and collective. We then return to a studio where the journey undergoes a creative reshaping. This process will be undertaken through the use of the Creativity Palette, a creativity tool that I have developed.

Available: Sat **Audience:** KS3-4 **Subjects covered:** all

Colly Mudie and Jane Burgon, Gressenhall Farm and Workhouse

Colour from Nature – Investigating natural plant dyes

This workshop will explore how colourful natural dyes can be made from plants. It will show how science can be fun and inspirational when given a real-life context and how the environment can enhance the aesthetic and artistic. Items from the museum's collections will be used to demonstrate cross-curricular links.

Available: Friday **Audience:** KS1-3 **Subjects covered:** art, science, textiles and history

Jo Rolfe

Changing Seasons – Creative Responses

This workshop will offer delegates the experience of working creatively in the environment using natural or found materials to make images that reflect the environment at that particular time. This workshop offers an extremely flexible way of working outdoors drawing on the ever-changing seasons and weather to offer new experiences on every occasion. These images/creations can be the basis on which other areas of the curriculum can be explored – music, sounds, words, the ‘small world’ of the child through their imagination can be connected to a knowledge and understanding of the ‘big world’.

Available: Fri/Sat **Audience:** Foundation; KS1

Fairyland Trust

Crown Workshop

For hundreds of years children and fairies would have made fairy crowns to wear at festivals and parties to celebrate the changing seasons of the year. They would use hedgerow leaves and beautiful wildflowers to decorate willow wreaths. This workshop will replicate this ancient practice, develop knowledge about planting and wildflowers and make connections with a range of curriculum subjects.

Available: Fri/Sat **Audience:** KS1/2

Michael Platt

Dancing the Environment

The workshop will explore ways of using environmental concerns as a stimulus for dance and movement. The leader will draw on his experience leading a dance project in Lowestoft looking at alternative energy sources – wind, solar, wave and using the coastal setting of Lowestoft as the inspiration. He will also explore ways of celebrating local culture and heritage through dance drawing on his experience developing a film based on the farming year and filmed on location in farms, fields and factories in mid Suffolk.

Available: Fri **Audience:** KS2/3

Subjects covered: dance, Performing Arts, PE, humanities, literacy

Wendy Titman

Developing Grounds for Early Years

This workshop would focus on the new Foundation Stage Framework drawing examples from it and using images to suggest ways of delivering aspects/requirements. The workshop would also require delegates to go and play in order to prepare a 5-minute demonstration of ways of using the outdoors.

Available: Fri **Audience:** Early Years/KS1

David Yates, Landscape Architect, NCC

Developing your School's Grounds

Are you interested in making your school grounds more valuable for Outdoor Education, play and biodiversity? This workshop will explore techniques for drawing up a 'Vision Plan' for the whole of your school grounds, involving as much of the school community as possible.

Available: Fri/Sat **Audience:** KS1-4

Mary Pendered (gardener) Bob Pendered (artist), Eastfeast

Eastfeast – From Seed to Feast!

The workshops would be flexible and on-going throughout the weekend, centred around the Eastfeast experience of the 'natural curriculum' established in various schools to date. The activities would include trying out some of the basic practical principles from the eastfeast creative learning programme helping enhance our understanding that living off the land is a skilled and creative process. On day one delegates will explore techniques involved in the process of building a clay bread oven with a woven willow former and on day two experiment with building a simple wooden structure to protect it. On day 2 we will also be involved with activities planting up seedlings, looking at stages of growth and exploring ways to use the growing and gardening processes for creative learning. Working in small collaborative groups identifying opportunities for applying this learning across the curriculum through practical activities. We will also be talking about a seasonal planting diary and looking at an example that schools can take away and use as a basis for their own growing programmes.

Available: Fri/Sat **Audience:** KS1-4

Subjects covered: science, art, D&T, geography, English, history

Meg Amsden – Nutmeg Theatre

Ecopuppets

This workshop uses the medium of shadow puppetry to encourage children to learn about and understand their environment better and would encourage participants to think about environmental issues related to the Hall, or the school where they are based.. For younger children the subject will be explored through mythology, for older children it is explored through issues to do with their environment. It is based on a similar workshop used with teachers in the Danube Delta Romania, but also been used with schools in the Broads. The material can also be adapted to work with children with special needs. It is supported by a handbook based on the project ('Ecopuppets Handbook') which is full of practical advice on scriptwriting or other forms of story development, making and performing.

Available: Fri/Sat **Audience:** KS1-4 and Special

Subjects covered: art, geography, science, English, drama

Schools Waste Action Club, SWAC, (Jenny Craven)

History of Waste

This workshop looks at the way the Second World War influenced people's attitudes and behaviour towards waste and the subsequent impact it had on the environment. There is a focus on the collection of salvage as well as the 'make do and mend' concept.

The session will include a look at how packaging has changed since the 1940s, a chance for participants to try out a rag rug making technique to produce a piece of group artwork and the opportunity to participate in a compost activity that draws on 'dig for victory' and the 'grow your own food' campaign.

Available: Fri/Sat **Audience:** KS1-3 and Special

Subjects covered: history, geography, art and D&T

Hetty Selwyn, Farmers' Link

Knowing Food

This workshop will explore issue around food miles through an exploration of the experience of the Second World War. It will use games to explore issues around packaging, recycling, sourcing of food; making connections between food and its impacts, to build understanding about food 'chains'. It will explore the value of farm visits and developing growing sites on school grounds

Available: Fri/Sat **Audience:** KS1-3

Subjects covered: history, geography, maths, art, RE, PSHE

Liz McGowan

Living Places

In this workshop we will take a playful look at different ways of exploring and experiencing the outdoor environment, making the most of our different senses, altering our everyday perceptions and finding some unusual viewpoints. These exercises provide an excellent way of sensitising people to an environment, and we will include discussion about activities that might develop out of them.

Available: Fri/Sat

Audience: KS1-3, English, art, geography

Rob Lodge

Making Landscapes - Geographical Imaginations and Processes

This workshop would use three of the new KS3 Geography key concepts: Place, Environmental Interaction and Physical and Human processes. The delegates would explore, interact, map and collaborate with a special landscape. They would then be able to transfer the skills and activities into their own contexts at home or school.

Available: Fri

Audience: KS3/4 & Special

Subjects covered: geography, English, art

Mary-Jane Edgar

Medicine Wheels

This will be a hands-on workshop looking at some of the aspects of the culture of the North American Indians. It will explore their culture and beliefs in relation to the environment and living creatures. Part of North American Indian culture is a belief that all individuals are born in one of seven directions. We will be creating a giant Medicine Wheel that features the directions, we can then learn and apply some of the associations that we wish to bring about.

Available: Fri/Sat

Audience: KS1-4

Subjects covered: art, English, RE, history

Martin Sercombe and Britta Polmuller

Natural Soundscapes

Participants will explore the acoustic environment of the surrounding park using camcorders and professional microphones. They will seek out interesting sonic textures, and collect a palette of sounds to sample back in the studio. For the second hour we will work with Audacity and/or Acid Pro to mix together ambient soundscapes, combining library samples with the natural ones just collected.

Available – Fri/Sat

Audience: KS2/3

Subjects covered – ICT, art, music, geography

Gary Winter/Mike Roper

Orienteering

This will be a practical session showing delegates how they can create an orienteering course in their school's grounds or a nearby space. Delegates will also learn about other outdoor learning opportunities at the Whitlingham Outdoor Learning Centre.

Available: Fri **Audience:** KS1-4

Jeni Smith, UEA

Reflective Classrooms

This workshop will explore the way teachers and children can use journals and other strategies to reflect on learning and growing. It would cover making and using journals; using journals for oneself; setting up and sustaining reflective journals and other activities with children. At the centre of the workshop there will be a cluster of reflective activities for workshop participants: writing, drawing, map making, talking, playing a little. The aim would be to create a space where participants can explore elements of reflective practice and to think about how such activities might apply to the contexts they work in.

Available: Fri/Sat **Audience:** KS1-4 and Special **Subjects covered:** all

Lys Flowerday

Revistas

This workshop will explore the gardens of Houghton Hall, experimenting with scale and perspective. Maps will be studied and different viewpoint devices used. We will reinterpret selected elements. (See also VISTAS – Workshop 1)

Workshop 2: Revistas

Further practical ideas for responding to the physical environment:

- ❑ collecting and recording of personal landscape compositions using “picture frame” viewfinders;
- ❑ a simple puzzle picture;
- ❑ transformation of a plan of the gardens & similar treatment of house façade to match;

Available – Sat Audience: KS3/4 **Subjects covered:** art, history, English & science

SAW (Science and Writing) Trust – A team including: Professor Ann Osborne, Mark Cocker, Chris Hann and Tom Corbett

SAW Outdoors

This workshop would be offered in two options. Groups would work with a scientist/naturalist and then opt to explore a creative response supported by either a writer or an artist to respond to the environment around them, carrying out experiments, creating poems and artwork inspired by what they find.

Available: Fri/Sat **Audience:** KS1-4 & Special **Subjects covered:** science, art, English

Gill Brigg, Green Light Trust

Sensing the Forest

The workshop would look at how practitioners can use basic theatre elements to engage children and young people in their learning about the environment. We will explore 'silence to sound', 'darkness to light' and 'stillness to action' to engage and inspire. No drama or theatre experience required to take part in the workshop.

Available – Fri/Sat **Audience:** Most appropriate for Special Needs (SLD) but also for Early Years; **Subjects covered:** environmental education, English - speaking and listening, geography, PSHE and citizenship

Hetty Selwyn, Farmers' Link

Sowing seeds and finding new ways

This workshop will explore our dependence on the environment through: story, meditation and discussion. Delegates will make a labyrinth from natural materials using a sacred ancient pattern. It is not a maze, puzzle or trap with dead ends. It is a single pathway leading to a centre. A walking meditation. The workshop aims to bring freshness to our understanding of the beginnings of things, stored potential (importance of seeds, biopiracy) and variety and to feel the power of the individual.

Available: Fri/Sat **Audience:** KS1-3 **Subjects covered:** history, geography, maths, art, RE, PSHE

Paul Jackson

Storytelling in the Outdoors

In this workshop we will explore a whole array of techniques to harness the power and magic of storytelling. We will consider: mythology, folktale, made up story, the use of storytelling in the outside environment and how that experience can be used in the classroom. The workshop will be hands-on and will show how, in the outdoor space from silence as the stories begin to unfold, we will experience the way the setting controls and envelops the telling. In the second half of the workshop we will explore a series of techniques, using telling styles, objects, sounds, movement, silence to help create the "living nature" of telling and how it differs from reading a book. Resource sheets will be available for delegates.

Audience: KS1-3 **Available:** Fri/Sat

Meg Amsden – Nutmeg Theatre

The Rubbish Monster

This workshop uses recycled and reused materials to make puppets and produce shows about rubbish, recycling etc. The workshop has been used with teachers and Watch officers in England and Scotland. Participants would be encouraged to actively forage for materials at the conference!

Available: Fri/Sat **Audience:** KS1/2, KS3, Special Needs
Subjects covered: art, geography, science, English, drama

Patrice Baldwin

Touching the Earth

This practical drama workshop will explore the notion of mankind throughout history, sharing the earth and being part of it, both literally and metaphorically. Taking inspiration from Chief Seattle's speech to the US Government, participants will use universal images and poetic text to bring alive the past, engage actively with the present and vision the future of our land.

Available: Fri

Audience: KS1-2

Liz McGowan

True Places

Any place, be it a land, a house, a body or a cosmos, can be mapped in a huge variety of ways, according to the particular interests of the map-maker. In this workshop we will explore the ways in which we each, as individuals, map particular places, and the types of markers that we select. We will then look at different ways of mapping our immediate surroundings.

Available: Fri/Sat

Audience: KS3-4, English, art, geography, history

Martin Sercombe and Britta Polmuller

Video Art in the Landscape

This workshop will be a natural progression from the first, allowing participants to develop image sequences to accompany their soundscapes. Participants wishing to attend just this workshop will work from a pre-recorded soundtrack.

In the first hour we will explore the park with video camcorders, as each participant selects a visual theme to develop. This might be water textures, light in motion, plant forms etc. In the second hour the material will be captured to hard drive and edited in Pinnacle Pro, fitting the imagery to a selected soundscape. Results then reviewed and discussed.

Available – Fri/Sat Audience: KS2/3 **Subjects covered –** ICT, art, music, geography

Lys Flowerday

Vistas

This workshop will explore the gardens of Houghton Hall, experimenting with scale and perspective. Maps will be studied and different viewpoint devices used. We will reinterpret selected elements. (See also REVISTAS – Workshop 2)

Workshop 1: Vistas

Making :

- ☐ a folded paper landscape
- ☐ a collage still-life or visual poem (representational or abstract compositions in low-relief).

Available – Sat

Audience: KS3/4

Subjects covered: art, history, English & science

Gilles Bourlet

Walking with Numbers

We will be exploring the garden and the park, looking at trees and the hall, working around the symbolism of the numbers: 3, 4 and 5. Learning in and through the environment, crossing the curriculum with Maths. Maths topics covered include:

Proportions	Fractions	Angles	Pythagoras
Formulae for Areas/Perimeters and Volumes	Vocabulary		

We will also be fabricating simple devices for measurement, using various materials.

Available – Sat **Audience:** KS3/4 **Subjects covered:** maths, art, D&T

Fairyland Trust

Wand Workshop

In this workshop delegates will explore the properties of trees. Ancient wizards chose to make their wands from the trees that grew around them. They spent many hours with these trees and learnt each tree's character and magic. Before the Latin 'A, B, C' came along they used trees as their alphabet and for their calendar. Participants will explore how to make use of this knowledge and take part in practical activities to decorate a wand and consider curriculum links.

Available: Fri/Sat **Audience:** KS1/2

Karen Hansen

Wind Turbines: Spinning axels and social science

How is electricity produced from blades that spin in our sky? And how many do we need? This can provoke inquiries into renewable energy targets, ecological protection, NIMBY issues, countryside beauty and design aesthetics. Using collaborative learning strategies and hands-on planning for a local case study, no one will be left behind.

Available: Fri/Sat **Audience:** KS3/4
Subjects covered: physics, maths, design & technology and geography

David North / Katherine Weston, Norfolk Wildlife Trust

Woodland Explorer Session

This woodland explorer session will introduce teachers to novel, interactive ways of exploring this habitat with children. You will take part in activities and go away with resources suitable to use with your pupils in school grounds or in a local park or woodland – these activities can be run wherever there are trees! Activities are very adaptable and can be used with a range of ages.

Available – Friday **Applicable for:** KS1-3;
Subjects covered – science, environmental education, geography and citizenship

Sue Falch-Lovesey (Head Environmental and Outdoor Learning - NCC's Children's Services) and Constance Tyce (Head Teacher - Emneth Nursery)

Young Children in the 'Forest!

This workshop would explore ways of developing high quality Outdoor Learning in a child-centred environment through and understanding of the ethos and philosophy behind 'Forest Schools', supported by practical activities that can be transferred to any kind of setting.

Available: Fri/Sat

Audience: Foundation, KS1
