East Midlands

2009 2010

Primary

Continuing Professional Development
Outreach & Bespoke CPD

We are able to offer courses to run from our programme or tailor make a course to meet the needs of individual schools or school clusters. We can, subject to availability, run these on INSET days, whole, half days or twilights. By providing outreach or tailor making a CPD course for you offers a very flexible and cost effective way of providing CPD. Please email the Centre, slcem@le.ac.uk, for the attention of Sue Bull to discuss your requirements in detail.

To give a flavour of what we are able to organise examples of previous bespoke CPD include: a whole day for a local Development Group involving 150 teachers and teaching assistants on ‘Creative Science’; delivery of a day for the partner schools of a local Secondary Specialist College on ‘Creative Practical Science’; for primary science coordinators ‘Getting Prepared for SATs’ and a twilight on ‘Science: Practical, Fun and Meaningful!’ Sessions such as these can often be organised to run in your own school, if you prefer, or at the Science Learning Centre East Midlands.

In addition to our outreach and bespoke work we are able to offer schools the opportunity to hold meetings at the Centre. Colleagues have found our resource room a valuable asset when planning work. You are also able to take advantage of our drop in sessions where you can view resources, software and, if booked in advance, try out our latest ICT equipment.

“Great to have a chance to get ‘re-inspired’. Very inspiring hands-on ideas.”

Course delegate 2009

Respond

We hope you like our new style of catalogue. This new style catalogue contains details of all the Primary courses offered by the Science Learning Centres both in our region and elsewhere, together with the National Science Learning Centre programme. You will find, in the pocket at the back of the catalogue, details of the courses planned at the Science Learning Centre East Midlands for the forthcoming months. Updated information about courses will be sent to you each term but if you would like additional copies or further information about any of our activities please contact us. We will also be adding new courses to the programme as the year progresses. Look out for these in our termly mailers or on our website www.le.ac.uk/slcem.

Welcome to the 2009/10 Primary course catalogue for the Science Learning Centre East Midlands. Our new, exciting programme is more comprehensive than ever, covering science education from Early Years/Foundation Stage to KS2, with a broad range of courses to offer the very best science CPD to colleagues across the region.
About Us
Our main Centre is based at the University of Leicester within the School of Education. The University is recognised as one of the UK’s leading institutions for teaching and research and is currently the Times Higher Education University of the Year. We are able to draw upon a large pool of expertise from a number of different departments in order to enrich and enhance our courses. Some of our courses are led by colleagues at the forefront of primary science research; enabling you to keep up to date and receive CPD which is both relevant and stimulating.

In addition to our main Centre we have a number of satellite Centres across the region. Our two main satellites are at the University of Nottingham and Bishop Grosseteste University College, Lincoln. In addition we run courses at John Cleveland Specialist Science College in Hinckley and at Snibston Discovery Park in Coalville.

We work closely with a number of leading educationalists and academics to ensure that all our courses are led by the very best trainers available. In addition to excellent trainers, the team at the Centre will do their utmost to ensure that the courses you attend are well resourced and supported, and run smoothly. A member of our team attends every course, including those courses held at satellite Centres ensuring you receive a warm and friendly welcome at all times.
There are courses and events suitable for primary subject leaders, primary teachers, senior leaders, early years foundation stage practitioners and teaching assistants. These courses and conferences take place at your regional Centre, satellite venues and the National Centre.

Many groups of schools and local authorities are getting together with us to plan their own local events. If you can’t find exactly what you and your school needs in our programme, please get in touch as we will be able to organise a bespoke event for you.

Courses continue to have a strong emphasis on science enquiry as it underpins all science teaching and learning. This includes outdoor learning and we are pleased to be working closely with the Royal Botanic Gardens, Kew to support schools to use the ‘treasure chest’ delivered to every primary school in the UK for The Great Plant Hunt. These free resources celebrate the 200th birthday of Charles Darwin and will enable your children to follow in Darwin’s footsteps to investigate their local environment.

Don’t Miss Out

All our courses support you to engage children in exciting practical science activities, making relevant links to real-life contexts and other subjects across the curriculum. You will have the opportunity to try out new activities and strategies and think about how you can implement them back at school.

Opportunities and Support

“The children in my classroom have benefitted immensely from the practical and creative ideas from the course. It has inspired me to continually seek for further, more imaginative, ways to deliver science within the classroom. It was great to be able to meet with other teachers and discuss what they are doing within their schools.”

Course participant, 2008
Courses at a Glance

Developing the Role of the Science Subject Leader 4-11 years
Essential Science Enquiry Part 1 4-11 years
Essential Science Enquiry Part 2: Responding to Pupils’ Ideas 4-11 years
Outdoor Learning: Using the School Grounds 4-11 years
Science – Assessment for Learning 4-5 years
Sound: The Physics and Exploration in the Early Years Foundation Stage 4-11 years
Supporting Primary Science 4-11 years
Creative Cross-curricular Science 7-11 years
Extending the Smart way of Working: Developing Personal Literacy Using Smart Science 4-11 years
Puppets: Talking Science, Engaging Science 4-5 years
Talking tales: Using Stories to Support Science Learning in the Early Years 5-7 years
Science and Stories: Using Stories to Support Learning at KS2 7-11 years
Science and Stories: Using Stories to Support Learning at KS3 7-11 years
Science Through Games KS1 4-11 years
Science Through Games KS2 4-11 years
Promoting Consistent and High Standards in the Early Years Curriculum 4-11 years
Promoting Consistent and High Standards in the Initial Curriculum 4-11 years
Making a Difference: How to Evaluate and Improve Science Learning in your School 4-11 years
Organising Science for Mixed Age Classes 5-7 years
Science and Design and Technology KS1 4-11 years
Creating a Repo: Exciting Science Weeks and Clubs 4-11 years
Motivation, Enrichment and Real Contexts for Primary Science 4-11 years

THEME: Regional
Gifted & Talented in Science Across the Primary Years 4-11 years
Science on a Shoestring 7-11 years
Getting Prepared - Post SATs! Re-thinking Assessment at Key Stage 2 7-11 years
Primary Science Annual Conference 4-11 years
Let’s Investigate Science in the Outdoor Classroom 4-11 years
Extending Gifted and More Able Children in Primary Science 4-11 years
Looking Science in Challenging Primary Schools 4-11 years
Extending the Role of the Science Subject Leader 4-11 years
Science and the Creative Arts 4-11 years
Developing Skills to Support Special Needs in Science 5-16 years
Science KS2 Conference 5-16 years
Coaching: Unlocking the Potential of Others 5-16 years
Teaching Assistants Taking the Lead 5-16 years
Leading Assessment for Learning in Science (5-16) 5-16 years
Creating a Buzz: Exciting Science Weeks and Clubs 4-11 years
Science Through Games KS1 7-11 years
Science Through Games KS2 4-11 years
Promoting Thinking in the Primary Curriculum 4-11 years
Making a Difference: How to Evaluate and Improve Science Learning in your School 4-11 years
Organising Science for Mixed Age Classes 5-7 years
Science and Design and Technology KS1 4-11 years
Creating a Repo: Exciting Science Weeks and Clubs 4-11 years
Motivation, Enrichment and Real Contexts for Primary Science 4-11 years

COURSES AVAILABLE AT EAST MIDLANDS
These courses are indicated by using the above regional colour scheme.

COURSES AVAILABLE AT OTHER REGIONAL CENTRES
These courses are indicated by using the above tint of the regional colour scheme.

NATIONAL CENTRE COURSES
These courses are indicated by using the above national colour scheme. The National Science Learning Centre is based in York.

The future
Looking to the future, the new curriculum (planned to start in September 2011) will focus on skills for learning and life across the curriculum and the interim report suggests that science and design and technology will be placed together in an area of learning. Many schools are already moving towards a more creative cross-curricular approach and so several of the courses in our programme look at making meaningful cross-curricular links. We will continue to respond to curriculum change to help you prepare for 2011.

Visit our website for the latest courses
www.slcs.ac.uk/courses

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www.slcs.ac.uk/courses
Developing the Role of the Science Subject Leader

This two-day course is about how to successfully lead science in primary schools including:
- defining the role of the science subject leader
- creating a science development plan for the whole school
- supporting colleagues to feel confident in their science teaching
- responding to issues arising from OFSTED inspections
- updating on current national priorities for primary science

You will be asked to fill in a needs analysis survey so that the above items can be prioritised over the two days.

You will be able to:
- set up and manage processes for leading science effectively
- lead change in your school in line with current priorities and innovations

Code: 09044
Ideal for: primary teachers, science coordinators/leaders, ASTs
Age group: 4 – 11 years
Length: 2 days
Course fee: £230

For more information see enclosed supplement or visit: www.slcs.ac.uk/network/09044

This course would lead well into Extending the Role of the Science Subject Leader at the National Science Learning Centre. Visit www.slcs.ac.uk/national/09106

Essential Science Enquiry Part 1

This course examines strategies for organising, managing and monitoring effective scientific enquiry throughout the primary school. Starting points for enquiries, different types of enquiry, progression, assessment, recording and communicating, and resourcing issues will be addressed during the day. You will be given help to plan for, monitor and manage this highly practical approach.

You will be able to:
- demonstrate increased knowledge of progression and assessment in enquiry
- implement a wide range of strategies for planning, resourcing and organising enquiry

Code: 09046
Ideal for: primary teachers, science coordinators/leaders, ASTs, NQTs
Age group: 4 – 11 years
Length: 1 day
Course fee: £130

For more information see enclosed supplement or visit: www.slcs.ac.uk/network/09046

This course would lead well into Essential Science Enquiry Part 2: Responding to Pupils’ Ideas at a Regional Centre. Visit www.slcs.ac.uk/network/09310

Essential Science Enquiry Part 2: Responding to Pupils’ Ideas

‘Children learn better when they are excited and engaged – but what excites and engages them best is truly excellent teaching, which challenges them and shows them what they can do.’ National Primary Strategy

In this practical course you will learn to plan for creative enquiry using children’s ideas and encouraging independent thinking in science. In a fast-paced and fun day you will discover how to inspire children to greater involvement and enjoyment in science and unlock their creative potential.

You will be able to:
- incorporate children’s ideas into your science lessons
- plan for science with a creative approach

Code: 09310
Ideal for: primary teachers, science coordinators/leaders, ASTs, NQTs
Age group: 4 – 11 years
Length: 1 day
Course fee: £130

For more information see enclosed supplement or visit: www.slcs.ac.uk/network/09310

This course would be complemented by Making a Difference: How to Evaluate and Improve Learning in Science at a Regional Centre. Visit www.slcs.ac.uk/network/09045

COURSE AVAILABLE AT THIS REGIONAL CENTRE
COURSE AVAILABLE AT OTHER REGIONAL CENTRES
Outdoor Learning: Using the School Grounds

Why teach outside the classroom?

Experiencing the world beyond the classroom is an essential part of learning and personal development. Every experience really does matter!

This course will consider the benefits of stepping outside the classroom and give practical advice on how to plan exciting and inspiring investigations. You will also explore a variety of resources designed to enhance learning beyond the classroom.

You will be able to:

- identify opportunities to enhance the teaching of science using a variety of learning environments
- plan safe and stimulating activities that take place outside the classroom
- use new and innovative resources including the Darwin Treasure Chest and The Great Plant Hunt

Code 09060
Ideal for primary teachers, science co-ordinators/leaders, ASTs, HQTs, teaching assistants
Age group 4 – 11 years
Length 1 day
Course fee £130/£95 teaching assistants

For more information see enclosed supplement or visit: www.slcs.ac.uk/network/09060

Science – Assessment for Learning

Assessment for Learning is an essential part of effective teaching and learning in science. This course will consider a range of Assessment for Learning techniques designed to promote progression and identify opportunities for challenge in science. We will also look at how to use assessment for learning strategies to level and track enquiry for school based summative assessments.

You will be able to:

- develop effective methods for finding out what children know and can do before starting a science topic
- support children’s progress in scientific enquiry eg teacher questioning and feedback, pupil self and peer assessment and target setting
- use level descriptors to assess children’s progress and set targets for next steps

Code 09047
Ideal for primary teachers, science co-ordinators/leaders, ASTs, NQTs
Age group 4 – 11 years
Length 1 day
Course fee £130

For more information see enclosed supplement or visit: www.slcs.ac.uk/network/09047

Scientific Play and Exploration in the Early Years Foundation Stage

This course will enable you to plan activities that encourage a range of skills in young children. You will try ideas for practical science that can be used with young children, and develop an understanding of the opportunities that exist to teach science in all six ELGs. Particular reference to ‘Exploration and Investigation’ of Knowledge and Understanding of the World will be made as well as the importance of play.

You will be able to:

- explain clearly what is meant by science in the Early Years/Foundation Stage
- demonstrate the value of purposeful play
- implement a range of ideas and activities to enhance children’s early science experiences

Code 09049
Ideal for early years foundation stage practitioners, science co-ordinators/leaders
Age group 4 – 5 years
Length 1 day
Course fee £130

For more information see enclosed supplement or visit: www.slcs.ac.uk/network/09049

You might be interested in Telling Tales: Using Stories to Support Science Learning in the Early Years at a Regional Centre.
Visit www.slcs.ac.uk/network/09010

For more information see enclosed supplement or visit: www.slcs.ac.uk/network/09047

COURSE AVAILABLE AT THIS REGIONAL CENTRE

COURSE AVAILABLE AT OTHER REGIONAL CENTRES
Creative Cross-curricular Science

“Making links between curriculum subjects and areas of learning deepens children’s understanding by providing opportunities to reinforce and enhance learning.” DCSF Primary Framework 2007

But where and how can relevant and exciting creative cross-curricular links be made? This course supports teachers in considering and planning for meaningful cross-curricular links within science and explores what ‘creativity in science’ actually means.

You will be able to:

- raise the profile of science across the primary years through embedding science in a creative cross-curricular way
- create short / medium term plans that deepen children’s understanding
- use a range of creative approaches to science

Code: 09053
Ideal for: primary teachers, science co-ordinators/leaders, ASTs, NQTs
Age group: 4 – 11 years
Length: 1 day
Course fee: £130

For more information see enclosed supplement or visit: www.slcs.ac.uk/network/09053

This course would be complemented by Science and Design & Technology at a Regional Centre.
Visit www.slcs.ac.uk/national/09111

Supporting Primary Science

This course is an introduction to the most important elements of primary science. It examines what primary science is all about, helps you to develop a better understanding of scientific enquiry and focus in particular on the ‘fair-test’ procedure. You will have the opportunity to try some of the ideas and take back a pack of materials that can be used with children in your school.

You will be able to:

- explain the important features of primary science
- describe what constitutes a ‘fair-test’ investigation
- use appropriate language and strategies to support children carrying out investigations

Code: 09050
Ideal for: teaching assistants who have had no previous science training
Age group: 5 – 11 years
Length: 1 day
Course fee: £95

For more information see enclosed supplement or visit: www.slcs.ac.uk/network/09050

This course would lead well into Teaching Assistants Taking the Lead at the National Science Learning Centre. Visit www.slcs.ac.uk/national/09111

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- create short / medium term plans that deepen children’s understanding
- use a range of creative approaches to science

Code: 09053
Ideal for: primary teachers, science co-ordinators/leaders, ASTs, NQTs
Age group: 4 – 11 years
Length: 1 day
Course fee: £130

For more information see enclosed supplement or visit: www.slcs.ac.uk/network/09053

This course would be complemented by Science and Design & Technology at a Regional Centre.
Visit www.slcs.ac.uk/national/09111
Puppets: Talking Science, Engaging Science

This course explores the potential value of using puppets in science teaching in order to promote children’s engagement and talk. Using puppets in science encourages children to think more, talk more and enjoy science more! You will receive a FREE ‘PUPPETS’ resources kit worth £165 consisting of:

- two puppets for their age range
- a storybook and site license animated CD in which the puppets are the main characters
- hands-on experience of using puppets
- guidance on how to use puppets and stories effectively
- You will be able to:
  - create opportunities for children to develop their thinking
  - motivate and engage children

Code: 09055
Ideal for: primary teachers, science co-ordinators/leaders, ASTs, NQTs
Age group: 4 – 11 years
Length: 1 day
Course fee: £130

For more information visit: www.slcs.ac.uk/network/09055

Extending the Smart Way of Working – Developing Personal Literacy Using Smart Science

This course focuses on moving forward the ideas promoted in Smart Science, where Personal Capabilities and thinking skills are developed in engaging science contexts. With the launch of new materials related to KS1 and lower KS2 this course will explore how Smart Science skills lead to personally literate youngsters. It focuses on cross-curricular development of skills and how whole school approaches enable ongoing development of personal skills, beyond just the resource.

You will be able to:

- describe a range of Smart Science strategies you can use in the classroom
- make links between how pupils learn and teaching science
- provide fun and effective learning opportunities for pupils

Code: 09054
Ideal for: primary teachers, science co-ordinators/leaders, ASTs, NQTs
Age group: 5 – 11 years
Length: 1 day
Course fee: £130

For more information see enclosed supplement or visit: www.slcs.ac.uk/network/09054

Telling Tales: Using Stories to Support Science Learning in the Early Years

Children adore stories. You will learn how to enhance your teaching in science through stories and poems both traditional and modern. See how to introduce scientific vocabulary and concepts through dramatic storytelling. Find out which stories can be used with different science topics and discover which books provide great links for science enquiry.

You will be able to:

- identify relevant stories and poems to be used as a stimulus for creativity in science
- develop and share ideas of how to introduce science story telling in your classroom
- select science activities linked to your stories

Code: 09010
Ideal for: early years foundation stage practitioners, science co-ordinators/leaders
Age group: 4 – 5 years
Length: 1 day
Course fee: £130

For more information visit: www.slcs.ac.uk/network/09010

You might be interested in Scientific Play and Exploration in the Early Years Foundation Stage at a Regional Centre. Visit: www.slcs.ac.uk/network/09049

Science and Stories: Using Stories to Support Learning at KS1

This course will explore how to enhance teaching and learning in science through stories and poems and motivate through storytelling and drama.

You will find out which stories can be used with different science topics and learn how to create ‘Science Story Sacks’, using your own stories as starting points. You will also experience which books provide links for science discovery.

You will be able to:

- identify relevant stories and poems for use in science
- develop your understanding of how stories can be used to enhance science
- entice staff to use stories to support subject knowledge and enquiry at KS1

Code: 09056
Ideal for: primary teachers, science co-ordinators/leaders, ASTs, NQTs
Age group: 5 – 7 years
Length: 1 day
Course fee: £130

For more information visit: www.slcs.ac.uk/network/09056

You might be interested in Creative Cross-curricular Science at a Regional Centre. Visit: www.slcs.ac.uk/network/09053

Science Learning Centre East Midlands
Science Through Games KS1

All teachers know that good games are motivating and promote effective learning. In this hugely enjoyable and active day, experience a bounty of games to teach children about the content of science and also to help them learn about science enquiry skills. Aimed particularly at teachers in KS1, this course is designed to make learning in science so much fun that children won’t want to stop. Come prepared to engage with learning and have fun!

You will be able to:
- experience games / activities that can be used within the classroom to reinforce scientific enquiry skills
- appreciate how such games can engage and provide effective learning opportunities for pupils

Code: 09058
Ideal for: primary teachers, science co-ordinators/leaders, ASTs, NQTs
Age group: 5 – 7 years
Length: 1 day
Course fee: £130

For more information visit: www.slcs.ac.uk/network/09058

You might be interested in Creative Cross-curricular Science at a Regional Centre. Visit www.slcs.ac.uk/network/09053

Science Through Games KS2

All teachers know that good games are motivating and promote effective learning. There are plenty of games to teach children about the content of science but nothing to help them learn about science enquiry skills...until now!

Sample the delights of Fair Test Scramble and Table Talk and how the games relate to the progression of science skills. Come prepared to engage with learning and have fun!

You will be able to:
- experience games / activities that can be used within the classroom to reinforce scientific enquiry skills
- appreciate how such games can engage and provide effective learning opportunities for pupils

Code: 09057
Ideal for: primary teachers, science co-ordinators/leaders, ASTs, NQTs
Age group: 7 – 11 years
Length: 1 day
Course fee: £130

For more information visit: www.slcs.ac.uk/network/09057

You might be interested in Extending Gifted and More Able Children in Primary Science at the National Science Learning Centre. Visit www.slcs.ac.uk/national/09104

Promoting Thinking in the Primary Curriculum

What’s the Bright Idea? The development of higher level thinking skills is an essential stage in promoting better understanding of scientific concepts. But how can this be achieved?

This course will give you the opportunity to examine published materials and explore proven strategies that promote thinking in the context of primary science.

You will be able to:
- engage with published materials designed to promote and support thinking in primary classrooms
- deconstruct some exemplar lessons to develop your own understanding of how to scaffold pupils’ thinking
- use strategies to encourage a more thinking approach to pupil talk

Code: 09312
Ideal for: primary teachers, science co-ordinators/leaders, ASTs, NQTs
Age group: 5 – 11 years
Length: 1 day
Course fee: £130

For more information see enclosed supplement or visit: www.slcs.ac.uk/network/09312

This course would be complemented by Extending Gifted and More Able Children in Primary Science at the National Science Learning Centre. Visit www.slcs.ac.uk/national/09104
Making a Difference: How to Evaluate and Improve Learning in Science

This course prepares science subject leaders to answer two questions that are fundamental to self evaluation: How are we doing? How can we do better?

You will consider what evidence you already have, what more you can collect and how to evaluate this evidence. The course also looks at how to make best use of assessment information e.g. RAISE online.

You will be able to:
◗ describe what school self evaluation is for
◗ confidently complete SEF in relation to science and contribute to the school development
◗ plan the next steps for effective self evaluation of science

Code 09045
Ideal for primary teachers, science co-ordinators/leaders, ASTs
Age group 4 – 11 years
Length 1 day
Course fee £130

For more information visit: www.slcs.ac.uk/network/09045

This course would be complemented by Essential Science Enquiry Part 1 at the National Science Learning Centre. Visit www.slcs.ac.uk/national/09046

Organising Science for Mixed Age Classes

This course offers teachers the opportunity to develop effective strategies for planning and teaching science in mixed age classes. It aims to help provide a range of possible solutions to the problems that can arise. The day will take into account the fact many schools are moving towards a more creative cross-curricular approach to delivering the curriculum and will address long, medium, and short term issues.

You will be able to:
◗ plan effectively for mixed age classes
◗ ensure all children meet all the knowledge content of the National Curriculum
◗ differentiate enquiry to meet individual needs

Code 09061
Ideal for primary teachers, science co-ordinators/leaders, ASTs, NQTs
Age group 4 – 11 years
Length 1 day
Course fee £130

For more information visit: www.slcs.ac.uk/network/09061
Creating a Buzz: Exciting Science Weeks and Clubs

Running a science week or science club can be an incredibly rewarding experience, but taking on the task of making it happen can be daunting. This course provides advice, practical tips and contacts to help you plan and organise your science event. You will have the chance to try out some activities that can be included in a science week or club and draw up an action plan based on what you have learned.

You will be able to:
- plan to deliver a science week
- generate ideas for science week or science club activities
- access a range of local resources and organisations to support such activities

You will:
- become confident in using a range of easily obtainable resources to enhance lessons
- become aware of exciting activities for enriching and extending science lessons
- practice a range of hands on activities

Code: 09311
Ideal for: primary teachers, science co-ordinators/leaders, ASTs, NQTs
Age Group: 4 – 11 years
Length: 1 day
Course Fee: £130

For more information visit: www.slcs.ac.uk/network/09311

Science and Design and Technology

The Primary Review suggests that science and design and technology (D&T) will be placed together in an area of learning in the future curriculum. In this course you will consider the unique contribution of science and D&T to children's learning, how to make effective connections between the two subjects and how these can be built into long and medium-term planning. There will be examples of Children's work and hands-on activities to illustrate how children's scientific understanding can be developed through designing and making activities.

You will be able to:
- make effective connections between science and D&T
- use D&T as a context to deepen children's science understanding

Code: 09064
Ideal for: primary teachers, science co-ordinators/leaders, design and technology teachers
Age Group: 4 – 11 years
Length: 1 day
Course Fee: £130

For more information visit: www.slcs.ac.uk/network/09064

Science and Design and Technology

The Primary Review suggests that science and design and technology (D&T) will be placed together in an area of learning in the future curriculum. In this course you will consider the unique contribution of science and D&T to children's learning, how to make effective connections between the two subjects and how these can be built into long and medium-term planning. There will be examples of Children's work and hands-on activities to illustrate how children's scientific understanding can be developed through designing and making activities.

You will be able to:
- make effective connections between science and D&T
- use D&T as a context to deepen children's science understanding

Code: 09064
Ideal for: primary teachers, science co-ordinators/leaders, design and technology teachers
Age Group: 4 – 11 years
Length: 1 day
Course Fee: £130

For more information visit: www.slcs.ac.uk/network/09064

Motivation, Enrichment and Real Contexts for Primary Science

Successful science enrichment activities motivate and encourage pupils of all ages and abilities. They provide publicity opportunities and promote the school in the wider community. This course provides advice and practical tips to those wishing to set up and organise science clubs/weeks/parents' evenings, industrial visits/visitors and similar events.

The day includes information about support and funding from a range of organisations, as well as providing ideas for themes and activities.

You will be able to:
- make scientific enquiry challenging and exciting through activities both inside and outside the classroom
- access a range of local resources and organisations to support such activities

You will:
- become confident in using a range of easily obtainable resources to enhance lessons
- become aware of exciting activities for enriching and extending science lessons
- practice a range of hands on activities

Code: 09350
Ideal for: primary teachers, science co-ordinators/leaders, ASTs, NQTs
Age Group: 4 – 11 years
Length: 1 day
Course Fee: £130

For more information visit: www.slcs.ac.uk/network/09350

Science on a Shoestring

This exciting day will provide ideas for KS2 science using easily obtainable and cost effective resources.

A range of hands-on activities will be covered such as:
- hot air balloon from plastic bags
- strength of tissues
- stickiness of earwax
- the science of popcorn
- the straw jet and lots more!

Many of the activities have curriculum links and others will be of use for enrichment and extension work with pupils. In addition to the hands-on activities the science behind them will be discussed and explained.

You will also receive a resource book of photocopiable activities to take away with you.

You will:
- become confident in using a range of easily obtainable resources to enhance lessons
- become aware of exciting activities for enriching and extending science lessons
- practice a range of hands on activities

Code: BCM08108
Ideal for: primary teachers and science co-ordinators
Age Group: 7 – 11 years
Length: 1 day
Course Fee: £130

For more information see enclosed supplement or visit: www.slcs.ac.uk/network/bcm08108

REGIONAL COURSES
Getting Prepared - Post SATs! Re-thinking Assessment at KS2

The recent decision to withdraw the science SATs has many implications for schools, in particular assessing pupils in Key Stage 2 in order to be able to offer secondary schools a sound teacher assessment in science. This course is being run at the beginning of the school year in order to offer schools the opportunity to re-think their preparation for teacher assessment post SATs and the issues of assessment, particularly in Years 5 and 6.

The one day course will offer a wide range of creative approaches towards reviewing and revising children's knowledge and understanding across areas of learning including Scientific Enquiry. You will receive a range of materials and activities to take away with you which will be of immediate use in school.

You will:
- Become confident in using strategies to raise attainment
- Become aware of fun activities for raising attainment
- Be able to identify the key issues regarding teacher assessment

Code: EMC09100
Ideal for: primary teachers and science co-ordinators
Age group: 7 – 11 years
Length: 1 day
Course fee: £130
For more information see enclosed supplement or visit: www.slcs.ac.uk/network/emc09100

Gifted & Talented in Science Across the Primary Years

Has your school identified those pupils who are gifted and talented in science? Do you have a programme to meet their needs and are your teachers offering creative activities to challenge those children who are very able or exceptional in science?

In this course you will be helped to do these things and more, including developing a range of approaches and strategies to develop higher order thinking and offer enrichment and enhancement activities in science.

You will:
- Develop a range of approaches and strategies to develop higher order thinking
- Find strategies to identify G&T pupils
- Become more confident in developing creative activities to challenge pupils

Code: EMC08109
Ideal for: primary teachers and science co-ordinators
Age group: 4 – 11 years
Length: 1 day
Course fee: £130
For more information see enclosed supplement or visit: www.slcs.ac.uk/network/emc08109

All the National Centre courses listed in this catalogue are eligible for an ENTHUSE Award provided by the ENTHUSE Charitable Trust. The ENTHUSE Award covers:
- Course fees
- Travel and supply cover
- Accommodation and food
- A contribution to support follow-up activities in your school/college

All teachers, lecturers, teaching assistants and technicians involved in science teaching in maintained schools and colleges in England, Scotland, Wales, Northern Ireland and the Republic of Ireland are eligible for ENTHUSE Awards.

Before coming on one of our courses you will be asked to complete an Impact Identifier form. The purpose of this is to help you to maximise the impact the course will have in your school or college. Most of our courses are residential and split over two periods between which you’ll carry out a gap task. Finally you will develop and submit an action plan, identifying ways in which you can implement your ideas on your return to your school or college.
Primary Science
Annual Conference

This annual event brings together primary teachers, science subject leaders and teaching assistants interested in developing science. Colleagues involved in primary education are also welcome to attend.

There is a choice of workshops suitable for Early Years Foundation Stage, KS1 and KS2 teachers. All the sessions will be practical and interactive. The day includes time to explore the Resource Centre, where there will be an exhibition of primary resources.

You will be able to:

- inspire children and colleagues to enjoy science
- use a range of creative and cross-curricular approaches to science
- share best practice with other primary teachers and explore new resources

Code: NAE09101
Ideal for: science co-ordinators/leaders, primary teachers, teaching assistants
Age group: 4 – 11 years
Course fee: £156 + VAT
ENTHUSE Award: £356

For more information see enclosed supplement or visit: www.slcs.ac.uk/national/nae09101

Let’s Investigate Science in the Outdoor Classroom

The outdoor classroom provides many opportunities to inspire children’s learning in science. This course will promote outdoor enquiries that deliver the science curriculum and enrich children’s experiences. With lots of practical tips and workshops to encourage environmental activities and fieldwork it will help you turn your pupils into nature detectives with outdoor learning.

You will be able to:

- use outdoor activities as a context to develop enquiry skills
- extend and enrich the curriculum through teaching about the environment
- support colleagues in their teaching of science in the outdoor classroom
- identify priorities and produce an action plan

Code: NAC09103
Ideal for: science co-ordinators/leaders
Age group: 4 – 11 years
Course fee: £547 + VAT
ENTHUSE Award: £14750

For more information see enclosed supplement or visit: www.slcs.ac.uk/national/nac09103

Extending Gifted and More Able Children in Primary Science

This two part course addresses how to identify children that have exceptional scientific ability and identifies ways to meet their educational needs. You will explore enrichment activities that can be used to stimulate the curiosity of gifted and more able children and stimulate higher order thinking.

You will be able to:

- clarify appropriate levels of expectation of gifted children in science and how to provide a rich and stimulating environment for them
- develop strategies to promote learning using higher level thinking skills
- become more confident in delivering a range of challenging open-ended activities
- plan how you can use what you have learned to make an impact

Code: NAC09104
Ideal for: science co-ordinators/leaders, gifted and talented co-ordinators
Age group: 4 – 11 years
Course fee: £697 + VAT
ENTHUSE Award: £1497

For more information see enclosed supplement or visit: www.slcs.ac.uk/national/nac09104

You might also be interested in Promoting Thinking in the Primary Curriculum at a Regional Centre.
Visit www.slcs.ac.uk/network/09312
In order to ensure that access to high quality professional development is within easy reach there are ten Science Learning Centres located across the country.

This catalogue includes the courses available throughout the network of ten Centres plus a range of courses only available at your regional Centre. Your regional Centre may not be running the course you are interested in, or it might be easier for you to visit one of the other Centres.

There’s nothing to stop you attending a Centre outside your region - in fact we’re very happy for you to do so - so please, have a good look at what’s available online.

To book a place on a course
call 0845 155 1714 or book online at www.slcs.ac.uk/courses

North West
North East
Yorkshire & the Humber
West Midlands
East Midlands
East of England
South West
South East
London
National

To book a place on a course
call 0845 155 1714 or book online at www.slcs.ac.uk/courses
Science and the Creative Arts

This is an exciting two part course which offers new ideas to enhance primary science and develop children's creativity. Through interactive and innovative sessions you will experience a cross-curricular approach to science through creative arts.

You will:
- engage in hands on activities to illustrate a range of creative approaches to science
- consider how to raise the profile of science through embedding it in a cross-curricular way
- develop creative strategies for children to record and communicate their scientific ideas

Code: NAC09107
Ideal for: science co-ordinators/leaders
Age group: 4 – 11 years
Course fee: £697 + VAT
ENTHUSE Award: £1497

For more information see enclosed supplement or visit: www.slcs.ac.uk/national/nac09107

Developing Skills to Support Special Needs in Science

This two part course is aimed at teachers in mainstream and special schools who are teaching science to pupils with a range of diverse special educational needs. You will look at overcoming barriers to learning and engaging learners through a multi-sensory approach to scientific enquiry. There are optional sessions on specific issues e.g. autism, dyslexia and behaviour strategies. You will consider how to differentiate science so that pupils have a meaningful learning experience that is age appropriate.

You will be able to:
- ensure that inclusion is genuinely embedded in your planning and teaching
- use strategies to support access to science for pupils with special needs

Code: NAC09108
Ideal for: science co-ordinators/leaders, others
Age group: 5 – 16 years
Course fee: £896 + VAT
ENTHUSE Award: £1896

For more information see enclosed supplement or visit: www.slcs.ac.uk/network/09061

You might also be interested in Science Through Games KS1 at a Regional Centre. Visit www.slcs.ac.uk/network/090058
Teaching Assistants  
Taking the Lead  
This two part course will extend your knowledge of scientific concepts and the use of scientific vocabulary and questioning. You will develop your investigative skills, consider the health and safety issues of practical activities, explore strategies to promote pupils learning and progress, and apply this to planning your own lessons.

You will be able to:

- use Assessment for Learning strategies to provide effective feedback and identify pupils’ next steps
- consider health and safety issues in a practical science lesson
- differentiate tasks to support less able or extend more able pupils
- identify your own, and better manage pupils’ common misconceptions in science
- teach scientific enquiry skills effectively

Code  NAC09111  
Ideal for  science co-ordinators/leaders, primary teachers  
Age group  5 – 16 years  
Course fee  £697 + VAT  
ENTHUSE Award  £1487

For more information see enclosed supplement or visit:  www.slcs.ac.uk/national/nac09111

Coaching: Unlocking the Potential in Others  
Research shows that coaching is the most effective form of CPD in changing classroom practice. Coaching enables teachers to extend their repertoire of teaching skills and to transfer them between different classroom settings.

This two part course gives you the opportunity to explore the needs needed to become a coach including how to ask effective questions and how to support colleagues to achieve their goals. There will be time to share coaching experiences and plan follow up in school.

You will be able to:

- define the nature and aims of coaching  
- develop coaching skills  
- identify actions needed in your own school to implement and develop coaching

Code  NAC0910  
Ideal for  science co-ordinators/leaders, primary teachers  
Age group  5 – 16 years  
Course fee  £348.50 + VAT  
ENTHUSE Award  £748.50

For more information see enclosed supplement or visit:  www.slcs.ac.uk/national/nac0910

Leading Assessment for Learning in Science (5-16)  
This twopart course is for teachers who want to develop an Assessment for Learning (AfL) culture within their department/across their school. Sessions include how to establish a climate for learning, embed peer and self assessment, and develop independent learners. You will consider how to enable staff to work collaboratively to have a shared understanding of AfL practice and the systems that are needed to support this.

You will be able to:

- apply current research on AfL to your classroom practice  
- use a wide variety of AfL teaching strategies to promote pupils’ learning in science  
- create a climate for learning  
- support colleagues to improve their practice

Code  NAC09144  
Ideal for  science co-ordinators/leaders  
Age group  5 – 16 years  
Course fee  £896 + VAT  
ENTHUSE Award  £1896

For more information see enclosed supplement or visit:  www.slcs.ac.uk/national/nac09144

You might also be interested in Coaching: Unlocking the Potential in Others at the National Centre.  
Visit  www.slcs.ac.uk/national/nac0910

Science AST Conference  
This annual event brings together both primary and secondary science advanced skills teachers. It includes key note speakers and optional workshops on a range of areas from leadership and pedagogy, to innovation in teaching and contemporary science. The sessions are delivered by current ASTs, scientists and educational experts and, as ever, there will also be opportunity to share best practice with your colleagues.

You will be able to:

- learn new teaching and learning strategies  
- develop your awareness of current advancements in science and science education  
- have more confidence to lead science in your school and partner schools

Code  NAC09109  
Ideal for  advanced skills teachers  
Age group  5 – 16 years  
Course fee  £1876.50 + VAT  
ENTHUSE Award  £5944.50

For more information see enclosed supplement or visit:  www.slcs.ac.uk/national/nac09109

You might also be interested in Teaching Assistants and HLTA Courses at a Regional Centre.  
Visit  www.slcs.ac.uk/network/09074

Coaching: Unlocking the Potential in Others at the National Centre.  
Visit  www.slcs.ac.uk/national/nac0910

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- develop your awareness of current advancements in science and science education  
- have more confidence to lead science in your school and partner schools

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Ideal for  advanced skills teachers  
Age group  5 – 16 years  
Course fee  £1876.50 + VAT  
ENTHUSE Award  £5944.50

For more information see enclosed supplement or visit:  www.slcs.ac.uk/national/nac09109

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Visit  www.slcs.ac.uk/network/09074

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- use Assessment for Learning strategies to provide effective feedback and identify pupils’ next steps
- consider health and safety issues in a practical science lesson
- differentiate tasks to support less able or extend more able pupils
- identify your own, and better manage pupils’ common misconceptions in science
- teach scientific enquiry skills effectively

Code  NAC09111  
Ideal for  teaching assistants, HLTA  
Age group  5 – 16 years  
Course fee  £697 + VAT  
ENTHUSE Award  £1487

For more information see enclosed supplement or visit:  www.slcs.ac.uk/national/nac09111

You might also be interested in Teaching Assistants and HLTA Courses at a Regional Centre.  
Visit  www.slcs.ac.uk/network/09074

Leading Assessment for Learning in Science (5-16)  
This two part course is for teachers who want to develop an Assessment for Learning (AfL) culture within their department/across their school. Sessions include how to establish a climate for learning, embed peer and self assessment, and develop independent learners. You will consider how to enable staff to work collaboratively to have a shared understanding of AfL practice and the systems that are needed to support this.

You will be able to:

- apply current research on AfL to your classroom practice  
- use a wide variety of AfL teaching strategies to promote pupils’ learning in science  
- create a climate for learning  
- support colleagues to improve their practice

Code  NAC09144  
Ideal for  science co-ordinators/leaders  
Age group  5 – 16 years  
Course fee  £896 + VAT  
ENTHUSE Award  £1896

For more information see enclosed supplement or visit:  www.slcs.ac.uk/national/nac09144

You might also be interested in Coaching: Unlocking the Potential in Others at the National Centre.  
Visit  www.slcs.ac.uk/national/nac0910
Developing the Role of the Design and Technology Subject Leader

In this two part course you will develop the skills you need to lead design and technology (D&T) in your school. The Primary Review suggests that science and D&T will be placed together in an area of learning in the future curriculum and you will explore how to make effective connections between the two subjects. The course includes sessions on textiles, food, mechanisms and electrical control, assessment, questioning skills, designing, cross-curricular links and health and safety.

You will be able to:

- develop the role of subject leader to raise the profile of design and technology throughout the school
- make effective connections between science and design and technology

**Code:** NAC09170

**Ideal for:** design and technology subject leaders

**Age group:** 4 – 11 years

**Course fee:** £1095 + VAT

**ENTHUSE Award:** £2295

For more information see enclosed supplement or visit: www.slcs.ac.uk/national/nac09170

Achieving Excellence in Science Teaching in a New Primary Curriculum

Coming in summer 2010 is a new course to support primary science practitioners in achieving professional and certificated recognition for high quality science teaching on a personal level and for the whole school. Look out for details on our web portal.

You will:

- fully explore the potential for yourself and your colleagues to achieve professional recognition, and be guided through the application processes
- reflect upon the achievements and future directions of your school, and begin the process for achieving recognition of your school’s science provision

**Code:** NAC09175

**Ideal for:** science co-ordinators/leaders, primary teachers

**Age group:** 4 – 11 years

**Course fee:** £547.50 + VAT

**ENTHUSE Award:** £1147.50

For more information see enclosed supplement or visit: www.slcs.ac.uk/national/nac09175
To book:

- go online to www.slcs.ac.uk/courses
- complete this form and fax to 01904 328 328
- call 0845 155 1714
- email enquiries@slcs.ac.uk

Please quote ref CT09_EM when making your booking. Your submission of this form is taken as acceptance of our terms and conditions which can be found at www.slcs.ac.uk/eastmidlands/courses/tacs for regional courses or www.slcs.ac.uk/national/courses/tacs for National Centre courses. The national network of Science Learning Centres is a joint initiative by the Department for Children, Schools and Families and the Wellcome Trust.

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