

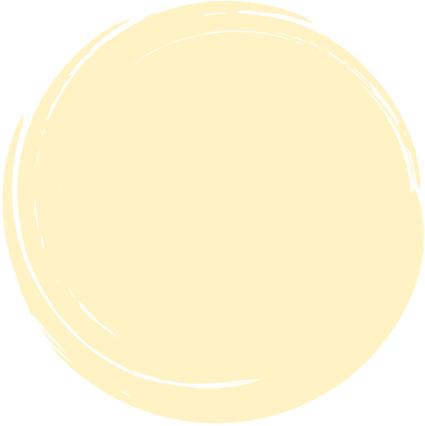


Northumberland, Tyne and Wear
SCIENCE
LEARNING PARTNERSHIP



Professional Development Opportunities
Autumn 2021

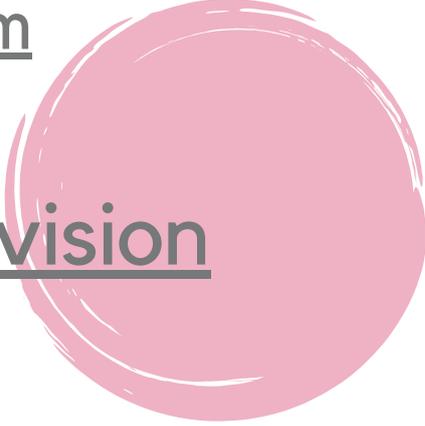
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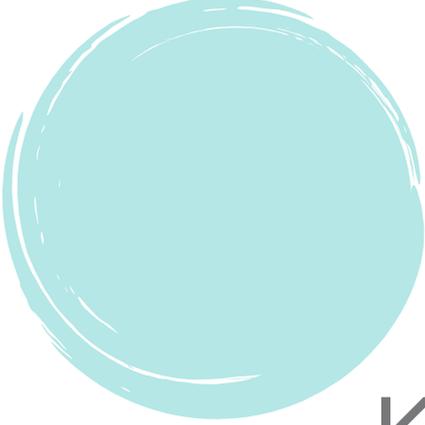
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What We Do

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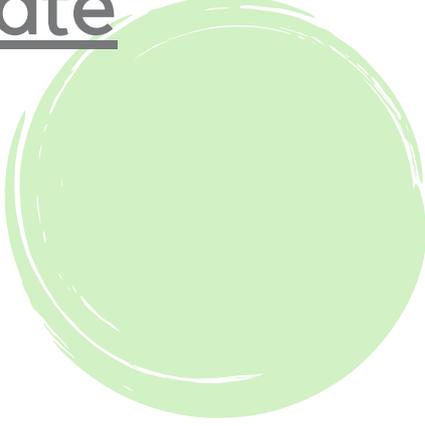
Our Autumn Provision



Primary.

KS2 & KS3

Secondary.



Keep Up To Date

About Us

Our Science Learning Partnership (SLP) is the result of The National STEM Centre's successful initiative to team up with schools and learning centres around the country to develop several SLPS.

The National STEM Centre is based in York and provides CPD training and facilities for teachers as well as the UK's biggest collection of STEM teaching and learning resources; to allow teachers of STEM subjects access to huge array of broadened support materials.

Our SLP works collaboratively with the North Tyneside Learning Trust, forming part of the North East STEM Hub. We've been working hard to provide CPD programmes for STEM teachers, technicians and teaching assistants across the North East, and this Autumn term we're offering both bespoke programmes of CPD and single courses run for individual staff, departments or clusters.

We have an incredible team of experienced facilitators of both Primary and Secondary levels excitedly waiting to begin.



What We Do

Professional Development



We offer comprehensive science CPD programmes for science teachers, technicians and teaching assistants across the region. Our CPD leaders are drawn from experienced educational consultants, practising teachers, technicians and partners across the region.

Much of the work we do is direct with schools, colleges, networks, clusters and alliances. This activity can be through bespoke programmes of CPD, or single courses run for your department or cluster.

Funding Opportunities



As part of this National Network we are made aware of funding opportunities for teachers and schools (such as the Enthuse Partnership Awards, and the Polar Explorer Programme) via the DfE and are able to advertise these to eligible schools and support them with their applications.

Sign up to our weekly newsletter here to find out about these, or contact us for further information
amy.banks@ntlearningtrust.org.uk

Facilitator Development



Would you like to be involved in sharing your good practice? We are always looking to develop the existing talent within our partner schools, to support teachers in delivering CPD sessions both within their own school and for the wider network. Contact us to find out more about the Facilitator Development Programme.



Meet the Team

A Message From Our Lead

Amy Banks
Lead Practitioner

Hello everyone!



My name is Amy Banks and I would like to take this opportunity to formally introduce myself and my team to you, as I have recently taken over the role of Science Lead Practitioner for the Northumberland Tyne & Wear Science Learning Partnership. I am also a Specialist Leader of Education (SLE) for Science and a practising teacher within a primary school in North Tyneside.

Please do not hesitate to get in touch if you have any questions or if you would like to discuss support or CPD requirements further. I can be contacted by email on amy.banks@ntlearningtrust.org.uk

You can also keep up to date with our CPD offer via our brochure and Twitter page [@NTLT_ScienceLP](https://twitter.com/NTLT_ScienceLP)



Meet Our Primary Facilitators

Hester has over 15 years of classroom experience and taught science to all year groups; took on the role of Science Subject Leader and soon found herself as a Science Consultant working with both local authorities and Science Learning Centres to develop materials and training to support teachers in primary science. She has also worked as an independent Science Consultant and now is the director of Education Guru and holds the Senior STEM Facilitator Award and STEM Online Facilitator Mark.



Hester Binge
Primary Facilitator

Hester passionately believes that science is one of the best ways to engage children in learning. Her approach is to relate science to everyday life and she's developed strategies, ideas and tools to encourage kids to 'Work Scientifically'. She also believes that science should be enjoyable; utilising interactive games, imaginative role plays and creative projects to inject a big dose of fun into her training and gives teachers the skills and tools to do the same in their classrooms. If you're on one of Hester's courses, you might find yourself role playing evolution or building a flower out of junk!



Joe Bradbury
Primary Facilitator

Joe has over 18 years primary teaching experience across all phases, with his first degree being in cell biology, he was always very keen to combine his two passions - science and teaching. This led Joe to rejuvenate a stale science curriculum across a MAT of 4 schools, with outstanding success, winning national awards in the process. After this, Joe led an established teaching school in Greater Manchester, which amongst other things, was the home to the Greater Manchester Primary Science Partnership - part of the highly renowned STEM Learning - a world leader in STEM education.

In 2020 Joe remotely led the Northumberland Tyne and Wear Science Learning Partnership, and was inspired by the multitude of issues caused by Covid 19 in schools to concentrate on being on hand to help the needs of individual schools during these very uncertain times.



Meet Our Primary Facilitators



Jane Banham
Primary Facilitator

HAAn enthusiastic, inspirational and highly experienced science teaching and learning consultant having 30 years experience in the education sector. Jane has worked successfully with a range of individuals, schools, science organisations such as ASE and STEM Learning, Subject Leaders and supports a number of teacher training establishments.

Jane has excellent communication and leadership skills, she is renowned for being approachable and with up to date current teaching experience- teaching Year 5/6 currently having taught in KS1 for the past few years. Jane has recently become a PSTT Fellow and also holds Chartered Science Teacher status from ASE as well as being a Senior STEM Facilitator.



Meet Our Secondary Facilitators

Alan started teaching science in Sunderland in 1991 and soon became involved in CASE and CAME (Cognitive Acceleration projects) which saw him support others to use the materials and the pedagogical approaches. He has taught maths and science across all Key Stages and as a consultant supports a range of schools across the UK and internationally. He is the editor of the Mathematical Associations SEND publication Equals and acts as the SEND work group lead for several maths Hubs.

Currently he is working part-time on a Ph.D investigating small group talk in the KS 3 science classroom. His latest project, supported by Stanley Black and Decker, involves the development of CPD materials to support schools in Uganda.



Alan Edmiston
Secondary Biology/Maths
Facilitator



Andy Gray
Secondary Chemistry
Facilitator

Andy is currently semi-retired after being a research chemist and then a school science teacher; head of chemistry and science for the last 22 years. However, he continues to work in schools as an advisor, tutoring and marking A level chemistry.

Andy has also facilitated courses for the RSC and Stem centre and worked on some EEF projects. He also teaches the new chemistry teachers on the PGCE course at Newcastle University.



Meet Our Secondary Facilitators

Dorothy started her career as a research chemist and took up teaching in the '90s; working in schools in York and the North East of England both as a teacher and Head of Science. In 2005, Dorothy became a science advisor for North Yorkshire County Council and since then continues to support many schools and science teachers across the North of England and beyond. Currently, she is an Education Improvement Partner for STEM Learning and works closely with the Science Learning Partnerships in the North East. She has been awarded the STEM Learning Senior Facilitator award in recognition of the impact of her work.

Dorothy has been involved in curriculum development projects since 1999 when she was a Royal Society of Chemistry, Teacher Fellow, working on 'Ideas and Evidence'. She has also worked on a range of projects with the Nuffield Foundation and the Gatsby Charitable Trust. Dorothy recently led the EEF/Wellcome Trust funded 'Deeper Thinking' project for Carmel Education Trust.

Dorothy is currently a key member of the RSC teacher professional development team and mentors trainee teachers on the RSC scholarship programme. She continues to work for and support the very successful 'Yusef Hamied Inspirational Science (formerly Chemistry) programme in India'. As part of this work, she has visited India many times; working with teachers, lecturers and teacher trainers to develop a more active and engaging approach to the teaching and learning of secondary science.



Dorothy Warren
Secondary Chemistry
Facilitator



Our Autumn Provision

We have an incredible array of courses this Autumn hosted by our experienced team of facilitators, we're all bursting with excitement and cannot wait to begin.

You can follow the "book here" link to the relevant booking page to sign up for each course.

Hosting a course

Schools across the North East can sign up to host an SLP course and it is a great way to get your staff free training. Your school is eligible to charge a venue fee to cover the cost of sending 2 delegates on the CPD course, you can also receive funding for catering costs.

Please contact our Administrator for more info



Primary CPD

Primary Science Network Package

Remote CPD

This set of bespoke online sessions, spread across the 2021–2022 academic year, has been created to address specific concerns and needs around the science in your school.

[Book Here](#)



Provisional Dates:

20/10/21 3:30pm–5pm

15/11/21 3:30pm–5pm

17/01/22 3:30pm–5pm

08/03/22 3:30pm–5pm

26/04/22 3:30pm–5pm

09/06/22 3:30pm–5pm

Assessment and Progression in Primary Science

Remote CPD

Evidence shows that effective Assessment for Learning (AfL) leads to raised attainment. Now that formal recording of levels has been removed, you need to be secure in your understanding of how to make judgments about children's achievements and progress.

Throughout the course we will identify how you can integrate and embed assessment practices into your science teaching.

[Book Here](#)



Date:

08/11/21 9:30am–3:30pm

Science Capital

Remote CPD

In our Primary Science Capital course, schools will have the opportunity to become familiar with the ideas around Science capital, thinking about what it means for your teaching and your pupils in the classroom, considering science inside and outside the classroom, school and home.

[Book Here](#)



Date:

25/11/21 9:30am–11:30am



Developing your Primary Science Curriculum using the Ofsted Framework

Remote CPD

Let's put the spotlight back on science. The new Ofsted framework provides an opportunity to reinvent your primary science curriculum. Discuss key strategies to ensure that the intent, implementation and impact of your science curriculum is evident throughout school.

Developing Pupil Led Investigations

Face to Face CPD

To develop the independence of children thinking and communicating as real scientists is essential to deepen their scientific understanding. You will be able to facilitate and create rich, effective and exciting strategies that provide opportunities that embed and extend scientific skills

[Book Here](#)



Date:

29/11/21 9:30am-3:30pm

[Book Here](#)



Date:

06/12/21 9:30am-3:30pm



KS2 & KS3 CPD

The Cognitive and Metacognitive Classroom

Face to Face CPD

The EEF have identified the role of cognitive and metacognitive strategies as a key aspect of high quality teaching. This course will explore the meaning of these and how they apply to the teaching of science in Key Stage 3. With reference to CASE the ideas of Piaget and Vygotsky will be used to highlight how important these strategies are to all aspects of the teaching process: from the planning of lessons to the management of learning within the classroom or lab.

Day 1 and 3 of this course will include live teaching that will be used to exemplify the key features of the cognitive and metacognitive classroom, with 1 remote learning date to be agreed with participants.

Supporting SEND Learners in the Science Classroom

Face to Face CPD

SEND learners, those who are operating well below the norms expected during early adolescence, view the world in unique ways. This course will offer insights into how SEND learners make sense of the world and offer practical suggestions for activities that can be used to support their needs within the science classroom.

Day 1 and 3 of this course will include live teaching that will be used to exemplify the key features of how to support SEND learners. Day 2 will be delivered remotely, with dates arranged between the presenter and participants during day 1.

[Book Here](#)



Option 1 Dates:

06/01/22 9am-3pm

05/04/22 9am-3pm

[Book Here](#)



Option 2 Dates:

07/01/22 9am-3pm

06/04/22 9am-3pm

[Book Here](#)



Option 1 Dates:

12/01/22 9am-3pm

26/04/22 9am-3pm

[Book Here](#)



Option 2 Dates:

14/01/22 9am-3pm

27/04/22 9am-3pm



Manging Groups and Social Construction in the Science Classroom

Face to Face CPD

The past two years have seen many science lessons move out of the laboratory with an associated reduction in group work and collaborative activities. Oracy is a key aspect of collaborative learning and social construction and must be planned for and developed as a pedagogical strategy.

Day 1 and 3 of this course will include live teaching that will be used to exemplify the key features of managing groups and social construction. Day 2 will be delivered remotely, with dates arranged between the presenter and participants during day 1.

[Book Here](#)



Option 1 Dates:
18/01/22 9am-3pm
05/05/22 9am-3pm

[Book Here](#)



Option 2 Dates:
19/01/22 9am-3pm
06/05/22 9am-3pm

Developing Numerate Scientists

Face to Face CPD

In this course the ideas of Piaget will be used to support your understanding of pupil's mathematical reasoning. Building on the ideas in CAME and CASE a range of sample activities will be shared that will enable you to enrich the curriculum with opportunities for you to support, develop and extend your pupils numeracy skills.

Day 1 and 3 of this course will include live teaching that will be used to exemplify the key aspects of developing the numeracy skills necessary for success in science. Day 2 will be delivered remotely, with dates arranged between the presenter and participants during day 1.

[Book Here](#)



Option 1 Dates:
26/01/22 9am-3pm
10/05/22 9am-3pm

[Book Here](#)



Option 2 Dates:
28/01/22 9am-3pm
11/05/22 9am-3pm



Secondary CPD

"Closing the Gap"

Developing students learning skills

Remote CPD

As a result of school closures due to Covid 19, the curriculum learning gap between disadvantaged pupils and their peers within schools has grown significantly. In response to this, the Northumberland, Tyne and Wear Science Learning Partnership is running a series of 1 hour interactive live sessions; our 'Closing the Gap' series is aimed at helping bridge the gap between disadvantaged pupils and their peers.

The sessions can be booked individually or all together for a reduced price.

Option 1:

Individual Sessions for £25 each:

[Self Regulation:](#)

[05/10/21](#) 15:45pm-16:45pm

[Observation Skills:](#)

[21/10/21](#) 15:45pm-16:45pm

[Literacy – Developing.](#)

[Writing.](#)

[04/11/21](#) 15:45pm-16:45pm

[Data Representation:](#)

[16/11/21](#) 15:45pm-16:45pm

[Scientific Calculations:](#)

[02/12/21](#) 15:45pm-16:45pm

[Thinking Skills:](#)

[14/12/21](#) 15:45pm-16:45pm

Option 2:

Book all remaining sessions for £100

[Book Here](#)



Secondary Early Career Teacher Network Package

Remote CPD

This is one network meeting per half term and impact evaluation at the end.

This network supports Science teachers who are at the beginning of their teaching career journey, providing them with an opportunity to share their experiences and learn from each other.

Dates can be flexible to meet the needs of the group.

[Book Here](#)



Provisional Dates:

18/10/21 3:30pm-5pm

06/12/21 3:30pm-5pm

31/01/22 3:30pm-5pm

21/03/22 3:30pm-5pm

16/05/22 3:30pm-5pm

04/07/22 3:30pm-5pm

Leading on Secondary Science Curriculum Design

Remote CPD

Consider what makes an effective curriculum. Progression in content and skills are explored and also how we can plan to support long term learning at curriculum level.

External influences on curriculum development are considered and participants will explore development of schemes of learning to suit their own setting and identify next steps.

[Book Here](#)



Dates:

11/10/21 4pm-5pm

14/10/21 4pm-5pm

18/10/21 4pm-5pm



Essential Skills for New and Aspiring Subject Leads

Face to Face CPD

Working with an experienced science leader, you will develop your vision and leadership skills to enable you to lead an effective and vibrant science team. By improving your leadership and management skills you will help your team teach more effectively so students achieve their potential.

[Book Here](#)



Option 1 Date:

21/10/21 9am-3pm

[Book Here](#)



Option 2 Dates:

10/11/21 1:30pm-4:30pm

10/01/22 1:30pm-4:30pm

Secondary Science Heads of Department Network Meeting

Remote CPD

This is a chance for collaboration with your peers so you can share information and develop as a leader. Expert consultants will help you identify priority issues in teaching and learning and professional development for your teams. You will be able to develop solutions, drawing on the expertise within the group. This strengthening of informal school-to-school support will create an effective network of information, advice and guidance.

[Book Here](#)



Dates:

03/11/21 3.45-5.15 pm

02/02/22 3.45-5.15 pm

28/06/22 3.45-5.15 pm



Chemistry Subject Enhancement for Non Specialists

Face to Face CPD

This course is aimed at non-specialists that find themselves teaching chemistry, particularly to GCSE level. During the course, subject knowledge in the seven key topic areas will be covered along with common misconceptions. Strategies will be developed to help with effective teaching of the tricky bits of the curriculum and participants will be signposted to resources that will help to develop their teaching of chemistry.

[Book Here](#)



Date:

18/11/21 9am-3pm

Strengthening Practical Work in Chemistry

Face to Face CPD

Research evidence indicates that practical learning improves student motivation, attainment and overall school performance. Through hands-on activities you will undertake new and established strategies and practical techniques to make students' learning more effective.

[Book Here](#)



Date:

09/12/21 9am-3pm

Too much to take in?

Unsure which courses are
most relevant to your
schools needs?

Please feel free to
direct any questions to
our Administrator



Keep Up To Date

To support us, we would really appreciate it if this google form could be filled in at your earliest convenience. This is for you to let us know what STEM and; Science CPD you would like the SLP to run in the Spring and Summer terms, so that we can tailor our package to your requirements. It is also a fantastic opportunity for us to get to know some of our Science practitioners and leaders in the region.

<https://forms.gle/WcFG1YHh85pDgYtL6>

THANKYOU



 @NTLT_ScienceLP

 Lead Facilitator:
amy.banks@ntlearning trust.org.uk

 Administrator:
natasha.mohindra@ntlearningtrust.org.uk

