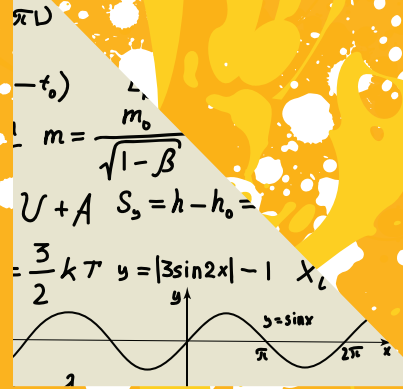


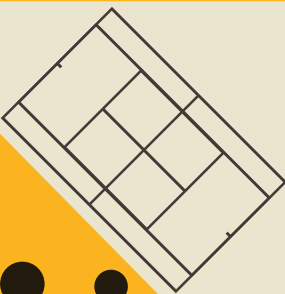


Art  
English  
Maths  
Music  
PE  
Science



**Subject  
Enrichment  
Residential**

Summer 2025, University of York



[www.ptieducation.org](http://www.ptieducation.org)

Proudly supported by

**AQA**  
Questions matter

# Welcome

## Subject Enrichment Residential 2025

Welcome to The PTI's 2025 Subject Enrichment Residential. We hope you will find refreshment, discover new specialist subject knowledge, and reconnect with the reason you came into teaching during your time with us.

We hope you will enjoy the chance to engage with other teachers who share an expansive vision of the curriculum and what it means for young people to succeed in their learning. For many of you, this residential will be the beginning of your journey with The PTI through our Department Development Programme. We hope this will cultivate you as a Subject Leader and enhance the work of your department. Previous participants have spoken about the programme 'revolutionising' their approach to the curriculum and 'completely reinvigorating' their teaching. We wish the same for you.

Ultimately, the most important aspect of The PTI's emphasis on the curriculum is the impact that strong subject teaching has on young people's learning, particularly those young people from less advantaged backgrounds. Together, we can change their world for the better.

We look forward to meeting you.



**CAROLYN ROBERTS MBE**  
**CO-DIRECTOR**



**HUGH RAYMENT-PICKARD MBE**  
**CO-DIRECTOR**

**Central Hall,  
University of York**



## What to expect

We are delighted to welcome you to The PTI Subject Enrichment Residential. Over the next three days, you'll engage with talks and presentations from a wide range of high-profile subject experts. There will also be time to explore subject leadership approaches and enrich your knowledge through workshops, panels and tours. This is a unique opportunity for you to step away from the classroom, to share best practice and to network with inspiring subject leaders from across the country. This weekend, we hope that you will:



Discover new specialist subject knowledge.



Develop new ways to extend, enthuse and inspire students and strengthen your curriculum.



Consider more dynamic and creative practices to revitalise your department.

## Aims of the course



Empower and inspire Subject Leaders to be advocates for their subjects in and beyond school and for a curriculum that is challenging, innovative and enriching.



Encourage teachers, through curricular and extra-curricular provision in their schools, to introduce pupils, regardless of their background or ability, to challenging and enriching materials and activities.



Enrich and develop teachers' subject knowledge and impact through academic talks, resources and discussion, and the sharing of best practice.



Motivate teachers to consider how to inspire engagement, enjoyment, curiosity and intellectual independence within and beyond the curriculum.

The PTI is delighted that AQA is supporting this residential.



# Art

## An overview of the Art Enrichment Residential

This year's Art Enrichment Residential invites you to reflect on the evolving purpose of art education—reaffirming its place as a vital part of a broad and balanced curriculum. In a time of social, cultural and technological change, art remains a powerful tool for developing creative confidence, critical thinking, and meaningful self-expression in young people.

Over the course of the programme, we will explore ways to strengthen and innovate the art curriculum through inclusive practice, cross-disciplinary connections, and deeper engagement with school and community life. With a balance of practical workshops, inspiring talks and professional dialogue, this residential is designed to refresh your thinking, share ideas, and build confidence in delivering an art education that is relevant, equitable and enriching for all.

Forty years on from the publication of *The Arts in Schools*, its call to ensure access, relevance and quality in arts education remains as urgent as ever. We hope this Residential empowers you to continue championing the arts as essential to both learning and life.

## Objectives of the course

- Enhance and innovate the Art & Design curriculum, sparking student enthusiasm and creativity while emphasising 'why we teach art', highlighting its role in skill development, visual perception, critical thinking, and self-expression.
- Inspire teachers to embrace innovative teaching by equipping teachers with strategies to blend traditional and digital techniques, ensuring inclusive access to a balanced, future-ready curriculum.
- Expand the role of art beyond the classroom by embedding it into school culture and the wider community through projects, partnerships and cultural initiatives.
- Challenge and excite teachers to push the boundaries of art education, creating dynamic and memorable classroom experiences by invigorating our passion in order to nurture creativity and engage students in an evolving world.



“

### PTI Art Residential participant

*"The course has been amazing; from the quality of the workshops to the professional discussions. It has reinforced why it is important to teach and how much I love Art as a subject."*

## Speakers



### KEYNOTE | ANDREW GRAHAM-DIXON

Andrew Graham-Dixon is one of the leading art critics and presenters of arts television in the English-speaking world. He has presented numerous landmark series on art for the BBC, including the acclaimed *A History of British Art, Renaissance and Art of Eternity*, as well as numerous individual documentaries on art and artists including most recently *Stealing Van Gogh*. For more than twenty years he has published a weekly column on art, first in *The Independent* and, more recently, in *The Sunday Telegraph*. He has written a number of acclaimed books, on subjects ranging from medieval painting and sculpture to the art of the present.



### LIZZIE LOVEJOY

Lizzie Lovejoy is a working-class, Darlington-born visual artist, performer and writer. They've spent their life listening to people's words, and now Lizzie translates local narratives into creative works. Working on projects and residencies from east Scotland to the Humber, Lizzie's home is their inspiration because our region is a tale worth telling and contains so many stories worth hearing. Lizzie was awarded North East Visual Artist of the Year 2023.



### SILKA GUY

Silka is a printmaker and arts educator based in Leeds with over five years of experience facilitating printmaking courses across Yorkshire. Alongside her teaching, she has developed a strong printmaking practice, exhibiting and selling her work at print and art fairs throughout the UK. Originally from New Zealand, Silka studied Graphic Design before relocating to the UK, where she became a member of The Leeds Print Workshop. Here, she runs a variety of printmaking courses, covering techniques such as collagraph, lino-printing, screenprinting, monoprint, and drypoint.



### JASMIN ISSAKA

Jasmin Issaka is a Freelance Psychedelic Illustrator and Graphic Designer based in Manchester. Her professional journey began in 2016, working freelance with small businesses, creative agencies, and independent clients across the UK and beyond. She later moved into in-house design, where she specialised in building, developing, and maintaining bold visual identities. From brand campaigns and digital illustrations to animation, video editing, and print design— she uses her skills to bring stories and brands to life with colour and soul. Jasmin has had the pleasure of working with incredible clients like Manchester International Festival, Factory International, Universal Music, LeftLion Magazine, Nottingham Trent University, and even had her artwork featured on the BBC's *Home Is Where the Art Is*.

# English

## An overview of the English Enrichment Residential

"There is nothing either good or bad but thinking makes it so." – Hamlet

This year's theme, "New opportunities for optimism in a changing world," focuses on how literature, non-fiction, and the spoken word inspire hope and resilience, celebrating the ways in which storytelling and education can uncover optimism even in difficult times. We will explore how comedy has been used to speak truth to power, serving as a tool for critique and inspiration. We will delve into literature that illuminates hope by revealing stories that find light in the darkness, reminding us of the resilience and strength inherent in humanity. Additionally, we aim to reframe challenges in education, viewing current reforms not as obstacles but as opportunities for innovation and growth.

## Objectives of the course

- Rediscover the joy of teaching English and its social, cultural, moral and philosophical importance within our world.
- Collaboratively explore strategies to develop reading, writing and oracy to foster articulate, expressive pupils, equipped to contribute meaningfully to society.
- Empower English teachers to create innovative and memorable materials to engage pupils with challenging literature and literary non-fiction texts.
- Embrace opportunities for change and renewal in an evolving educational landscape to inspire curiosity and interest regardless of background and ability.

“

### PTI English Residential participant

*"After the residential, I have felt invigorated and ready to take on anyone who says that arts education isn't important. I feel passionate and ready to tackle the last couple of weeks of term, remembering why I am doing this in the first place! English inspires not only minds and hearts, but souls too; its importance cannot be understated."*



## Speakers



### KEYNOTE | JASPER FFORDE

Jasper Fforde spent 20 years in the film business before debuting on *The New York Times* bestseller list with *The Eyre Affair* in 2001. His 18th novel, *Dark Reading Matter*, will be published in the UK/USA in 2025. Fforde's writing is an eclectic mix of genres, which might be described as a joyful blend of Comedy-SF-Thriller-Crime-Satire. He freely admits that he is fascinated not just by books themselves, but by the way we read and what we read, and his reinvigoration of tired genres..



### DR EZRA HORBURY

Dr Ezra Horbury is Lecturer in Renaissance Literature at the University of York. They gained their PhD at the University of Cambridge and are a former British Academy Postdoctoral Research Fellow. They are the author of two books, *Prodigality in Early Modern Drama* (Boydell and Brewer) and *Reading the Margins of the Early Modern Bible* (British Academy, Oxford University Press). They are also co-editor of *Transcribed* (Polari Print/Vi Editions), the first collection of transgender writing from UK authors. Ezra's research focuses on gender, queer theory, and theology in the Renaissance and modern periods, with particular interests in cultural interpretations of scripture, transgender theory, and trauma literature.



### DR TRACY IRISH

Dr Tracy Irish is an experienced teacher, theatre practitioner and education researcher with a specialism in Shakespeare. She has worked with a wide range of schools, theatre companies and cultural organisations in the UK and internationally, is an associate learning practitioner with the Royal Shakespeare Company and teaches regularly at the Shakespeare Institute, University of Birmingham. She has authored a range of resources and books including: *Teaching and learning Shakespeare through theatre-based practice*, *Shakespeare and Meisner* and the RSC School Shakespeare editions.



### LIZZIE LOVEJOY

Lizzie Lovejoy is a working-class, Darlington born visual artist, performer and writer. They've spent their life listening to people's words, and now Lizzie translates local narratives into creative works. Working on projects and residencies from east Scotland to the Humber, Lizzie's home is their inspiration because our region is a tale worth telling and contains so many stories worth hearing. Lizzie was awarded North East Visual Artist of the Year 2023.



### BRYAN RADLEY

Bryan Radley is Lecturer in Modern and Contemporary Literature at the University of York. His research and teaching focus on Irish literature, humour studies, and modern and contemporary fiction. Currently, he is working on three contributions to Cambridge University Press publications: an invited chapter on Elizabeth Bowen's comedy; an essay on John Banville's essays and lectures; and a book (edited with Dr Nick Taylor-Collins) on John Banville in Context.



### DEBORAH RUSSELL

Dr Deborah Russell is a Senior Lecturer at the University of York. Deborah's research interests focus on Gothic fiction, with a particular emphasis on women's writing and discourses of national identity. She also works on Romantic-era theatre, looking at melodrama, spectacle, and the politics of adaptation.

# Mathematics

## An overview of the Mathematics Enrichment Residential

"All mathematicians share a sense of amazement over the infinite depth and the mysterious beauty and usefulness of mathematics." – Martin Gardner

Join us as we explore this year's theme: "The future of Maths: Language, inclusivity, and technology." We'll focus on the use of artificial intelligence in the mathematics classroom, the crucial role of language and oracy in improving engagement, and the importance of creating high-quality subject content while considering the wider classroom environment.

This Residential is designed to give teachers and Subject Leaders the time and space to enhance their curriculum through cross-curricular links, develop confidence in using AI in the classroom, and explore how language can enrich mathematics provision and foster supportive, creative learning environments. We've curated an engaging programme to reinvigorate and inspire, leaving you with fresh ideas and practical strategies to take back to your classroom.

## Objectives of the course

- Empower teachers to confidently explore and integrate AI to enhance the curriculum and utilise AI for good in the classroom.
- Explore the importance of language in teaching, discuss methods to improve oracy within departments, and understand the significance of this in effective mathematics teaching.
- Promote inclusivity in our classrooms by exploring the role of mathematics education in social-justice issues and using social-cultural perspectives within the mathematics curriculum.
- Motivate teachers to embed cross-curricular links to strengthen the importance of mathematics within the school and beyond, outside of the traditional STEM subjects.



“

### ● PTI Maths Residential participant

*"The course reminded me to ignite the joy and fun into more of my maths lessons. The way maths is taught can change how a student feels about it, and Maths is integral to everything, so it's super important to teach it well."*

## Speakers



### KEYNOTE | PROFESSOR NIRA CHAMBERLAIN

Professor Nira Chamberlain is Mathematical Modelling Technical Fellow for AtkinsRealis, and is also a Visiting Professor at Loughborough University. With over 30 years' experience of mathematical modelling, simulation, and developing algorithms that solve complex engineering and commercial problems, Nira was the President of the Institute of Mathematics and its Applications from 2020 to 2021 and was the President of The Mathematical Association in 2023. In 2018, Nira was the winner of the Big Math Off title "World's Most Interesting Mathematician" and is currently the Chair of the Black Heroes of Mathematics Conference. Nira is a Fellow of the Institute of Mathematics and its Applications and of the Operational Research Society and was awarded an OBE for services to mathematical sciences in 2022.



### MICHEAL ANDERSON

Michael is the Education Lead for Mathematics at STEM Learning, based at the National STEM Learning Centre in York. Having held several roles within secondary schools, Michael provides mathematics expertise across all aspects of STEM Learning Limited's work, including curriculum and resource development, CPD delivery, enrichment activities and embedding STEM careers in schools.



### DR EMILY GROSSMAN

Dr Emily Grossman is an internationally-acclaimed science writer, public speaker and TV personality, best known as a resident expert on ITV's *The Alan Titchmarsh Show*, Sky1's *Duck Quacks Don't Echo* and Discovery Channel's *How Do They Do It?* Emily is passionate about using her platform to combat misinformation and raise awareness about important issues - from the climate crisis and vaccine safety, to neurodivergence, women in STEM and trans rights.



### PROFESSOR SARAH HART

Sarah Hart is a mathematician and author. She is Professor Emerita of Mathematics at Birkbeck College, University of London, and has recently served a four-year term as Professor of Geometry at Gresham College, the first woman to hold this chair since its creation in 1597. Her first book, *Once Upon a Prime: The Wondrous Connections Between Mathematics and Literature*, was a *New York Times* Book Review Editor's Choice.



### PROFESSOR JENNI INGRAM

Jenni Ingram is Professor of Mathematics Education at the University of Oxford where she is both a researcher and a teacher educator. Her recent research has included work on the teaching and learning of equations, and understanding of randomness, uncertainty and risk, as well as identifying students' mathematical reasoning when it is communicated in more informal ways.



### PROFESSOR ANNE WATSON

Emeritus Professor Anne Watson taught mathematics in challenging schools before undertaking teacher education and mathematics education research at the University of Oxford. She has written and edited numerous books including *Key Ideas in Teaching Mathematics* with Keith Jones and Dave Pratt (Oxford University Press) and *Care in Mathematics Education* (Palgrave Macmillan).

# Music

## An overview of the Music Enrichment Residential

Welcome to the Music Enrichment Residential, designed to inspire and empower passionate teachers. We invite you to engage in inspirational workshops and thought-provoking discussions on the fast moving and ever-changing developments in music education. We will explore how to unleash creativity through unusual and multi-media approaches, widen our creative reach in our communities, and take on the challenge of raising expectations not only for our students, but for ourselves. We hope that you will dive into all we have to offer and take part in this enriching experience that promises to enhance your skills and broaden your perspectives, as we bring together a vibrant community of passionate music educators ready for the future.

## Objectives of the course

- Motivate teachers to unleash creativity through curriculum design and use of technology.
- Empower teachers to have the confidence to set high expectations for all students, regardless of your specialism or experience.
- Encourage courage and resilience in meeting the challenge of raising expectations in the classroom and beyond.
- Broaden horizons by extending opportunities and provisions that engage with the wider community.

“

### Feedback from a PTI Music course:

*“It has reaffirmed my strong belief that everyone deserves to learn the skills necessary to express themselves. Everyone deserves to experience joy in their lives, and as music teachers we are in the privileged position of being able to provide this and to help our students provide it for themselves and others.”*



## Speakers

### KEYNOTE | NAOMI NORTON



Dr Naomi Norton has a varied portfolio that includes education, research, and consultancy. Her primary employment is with the School of Arts and Creative Technologies at the University of York where she works as Lecturer in Music Education and Musicians' Health and Wellbeing Coordinator. In addition, she has worked with a range of musicians across ages, disciplines, and contexts outside music Higher Education and is Chair of the ISME Musicians' Health and Wellbeing Special Interest Group (2024-2030): she is passionate about enabling musicians to overcome barriers relating to health and well-being and achieve their desired level of proficiency.



### ÁNGEL CATAÑO FLORES

Ángel graduated from the Monterrey Institute of Technology in 2007. He completed an MSc in Music Technology at the University of York in 2009, where he also started learning Gamelan under Dr Neil Sorrell. He is currently Gamelan ensemble lead with Gamelan Sekar Petak at the University of York, and has previously led the Golden Thread Gamelan at the University of Leeds, and Lotus Gate Gamelan at York St John University.



### FRAN HANNAN

Fran has been involved with Musical Futures for 20 years as part of the original Paul Hamlyn Musical Futures project (2003-2008), and then in many other roles from National Co-ordinator to Secondary Programme Manager and now Managing Director. She leads a team of Musical Futures Champion Teachers to advocate for and deliver music education training and workshops involving Musical Futures pedagogical approaches.



### CRAIG LEES

Craig Antony Lees is a contemporary vocal coach, choral leader and arranger. He is Principal Lecturer on the Popular Music Degree at Leeds Conservatoire, where he founded the LC Pop Choir in 2015. In 2017, he was the Musical Director behind Leeds Contemporary Singers, a nine-piece vocal harmony group that rose to fame as the winners of BBC One's Pitch Battle television show.



### JACK MCNEILL

Jack McNeill is a composer, producer, sound artist, DJ and Lecturer in Music and Sound Recording at the University of York who co-runs the university's Dance Music Cultures Research Group. His practice-based and theoretical research is concerned with social and aesthetic performances in European dance music cultures, and the production of electronic and electroacoustic music.



### KATE PEARSON

Kate Pearson is a composer, facilitator, and educator who specialises in creating and devising new pieces of music and music-theatre. She has worked extensively in education as a leader, collaborator, trainer, and mentor, engaging with children, young people, artists, and teachers. She teaches community and participatory music at the universities of Manchester and York as a visiting lecturer.



### MARK PHILLIPS

Mark Phillips taught music in state schools for over 20 years. He gained recognition for school ensembles through BT National Connections and the National Festival of Music for Youth. Mark spent 16 years as one of Her Majesty's Inspectors, Senior HMI for London, and National Lead for Music, leading major reviews of music education. In 2022, he founded BEAMS (Education and Music) and has since led on supporting schools, local authorities, academy trusts, and music hubs.

# PE

## An overview of the PE Enrichment Residential

In the ever-changing world, mental and physical demands have never been more apparent. PE as a subject forms the foundation for all young people in their understanding of how their body functions and what they are required to do to maintain a healthy and active lifestyle beyond the classroom, not only during their teenage years but for the rest of their lives.

This programme is designed for passionate educators eager to tackle the challenges within their physical education curriculum and to inspire transformative change in their schools. Our expert guest speakers will guide you through a series of thought-provoking sessions, encouraging you to rethink and refine your approaches to physical education. You will delve into ways to develop an extensive curriculum that not only focuses on physical and skill development but also nurtures the social and mental well-being of your students. Drawing on the most up-to-date research in the field, these sessions will equip you with evidence-based strategies to enhance your practice.

Throughout this course, you will engage in dynamic discussions and hands-on workshops that will equip you with the tools and insights necessary to elevate your PE program. You will leave inspired and empowered to implement effective changes, offering your students the best possible curriculum that promotes lifelong health, resilience, and personal growth.

## Objectives of the course

- To explore how best to promote exceptional and exciting teaching that inspires and creates a passion about PE both inside and outside the classroom.
- To empower and inspire PE leaders to develop a challenging, innovative, enriching and modern curriculum suitable for the 21st century.
- To provide meaningful opportunities to develop subject knowledge through inspirational talks, discussions and the sharing of good practice.
- Inspire PE teachers to reflect how best to promote engagement, enjoyment and have a student centred approach at all times.



### Feedback from a PTI PE course:

*"It has taken me back the basics of teaching and what is important. It has shown the importance of collaboration and sharing ideas and best practice. Whether you are in your first year of teaching or 20 years in, we are always learning and developing. It was a nice reminder to us all why we chose this profession."*



## Speakers



### KEYNOTE | DR PAUL SAMMON

Dr Paul Sammon is Senior Lecturer in Physical Education and Subject Lead for PGCE Secondary Physical Education at the University of Bedfordshire. He leads on developing PE partnerships and has created well-established links with a range of external partners including The Football Association, Rugby Football Union, Lawn Tennis Association and Cricket East. Paul coordinates a Primary PE Network for teachers across Bedford Borough. During his doctoral research, he co-developed a new pedagogical model which aims to support children and young people to value a physically active life.



### DR CORINNA CHIDLEY

Dr Corinna Chidley is Senior Lecturer in Health and Performance Nutrition at the University of Derby, with a background rooted in elite sport. Before transitioning into academia, she worked as a Performance Nutritionist with Arsenal Football Club Academy, England Rugby, and across non-league football, supporting both first team and academy players. Her academic interests focus on the intersection of nutrition, exercise, and immune function - areas she brings to life through her teaching, research, and applied experience. A dedicated runner and regular half marathon participant, Corinna is passionate about translating science into practice to support health and performance.



### THOMAS QUARMBY

Thomas Quarmby is Reader in Physical Education and Sport Pedagogy in the Carnegie School of Sport at Leeds Beckett University. He has worked with children and young people from socially vulnerable backgrounds – including care-experienced children and young people – for the past 13 years. His research centres on the role and value of trauma-aware practice for children and young people in various physical education, physical activity, and sport contexts.



### KYLE TAYLOR

Kyle Taylor is a senior leader in the sport of Flag American Football, a newly minted Olympic sport and one of the fastest growing and most inclusive sports in the UK. He has coached the game for nearly 15 years, across youth, women's, mixed adult and men's formats and for the greater part of a decade served on the National Governing Body, the British American Football Association, as the Head of Flag Football. He has been at the heart of the sports development, building the sport pyramid from the ground up during that time. Kyle believes passionately in the benefits that the sport can bring to everyone, especially young athletes compared to mainstream alternatives and is on a mission to raise awareness of the game and bring it to schools across the UK.



### FFION THOMPSON

Ffion is a post-doctoral researcher in youth athletic development, a module lead on the science of sport performance course, as well as a leader within the Centre of Child and Adolescent Physical Literacy. With extensive experience in athlete development and elite sport, she serves as Head Strength and Conditioning Coach at Queen Ethelburga's School, Pathway S&C Coach at Leeds Rhinos Netball, and Women's Head of Athletic and Physical Development at Wales Lacrosse. Ffion's focus lies in movement literacy and long-term athletic, holistic and dual career development, aiming to enhance experiences and opportunities for children and adolescents.

# Science

## An overview of the Science Enrichment Residential

From the moment we are born, we begin solving problems – experimenting, observing, and learning from the world around us. These problem-solving skills have never been more vital as humanity faces some of its greatest challenges: climate change, feeding a growing global population, and navigating the rise of Artificial Intelligence.

Now more than ever, it is essential that students are inspired to see science not just as a subject, but as a powerful vehicle for hope. Every student has a role to play – as a scientist – in tackling these global issues. Whether it's through encouraging curiosity and critical thinking in the classroom, or by showcasing the incredible innovations happening in climate and food science, we can help students see the impact they can make.

This residential will equip you with the tools to empower your students – not only to see themselves as scientists, but to believe that science is humanity's most powerful tool for building a brighter, more hopeful future.

## Objectives of the course

- To explore the role of practical work in science, particularly developing students' research skills and resilience and independent inquiry as part of a challenging and enriching curriculum.
- To encourage teachers to integrate real-world problem solving into their science teaching, to inspire students and demonstrate the relevance of science in everyday life.
- To develop subject knowledge by exploring the role of AI in scientific research and its potential to overcome problems that the next generation will face such as sustainability, food security and climate change.
- To discover ways to harness innovative technologies to improve the quality of project work in schools.



“

### PTI Science Residential attendee

*“This course has been excellent and I have been inspired by the guest speakers and the other delegates on the course. It has been great to have the time to re-engage in our subject and learn how science is used in the real world.”*

## Speakers



### KEYNOTE | DAVID SADDINGTON

David is Head of Strategy, Partnerships and Governance at the UK Government Department for Energy Security and Net Zero. He led the nature campaign for COP26 in Glasgow, resulting in 145 world leaders committing to halt and reverse forest loss by 2030. He instigated partnerships to tackle deforestation drivers such as food system emissions and mobilised over \$12 billion in finance. As a teenage campaigner, he persuaded Prime Minister Tony Blair to add climate change to the UK school curriculum (a world first) and has since led global efforts to expand climate education through TEDx talks, events and campaigns in over 15 countries.



### DR EMILY GROSSMAN

Dr Emily Grossman is an internationally-acclaimed science writer, public speaker and TV personality, best known as a resident expert on ITV's *The Alan Titchmarsh Show*, Sky1's *Duck Quacks Don't Echo* and Discovery Channel's *How Do They Do It?* Emily is passionate about using her platform to combat misinformation and raise awareness about important issues - from the climate crisis and vaccine safety, to neurodivergence, women in STEM and trans rights.



### DR BEN KEW

Dr Ben Kew is a PhD graduate from the University of Leeds, specialising in Food Colloid Science, with expertise in in-vitro mouthfeel (oral tribology) and sensory science of sustainable food plant proteins. Ben works as a Postdoctoral Research Fellow in Sarkar Lab under the Sustainable Protein Food (SusProFood) project funded by Innovate UK. Collaborating with industry partners, Innocent Drinks and SPG, they are developing innovative processing technologies to incorporate alternative proteins into foods, enhancing nutritional efficacy while maintaining sensory appeal.



### MARK LANGLEY

Mark Langley is the STEM CPD Lead at the National STEM Learning Centre, York, where he leads the team developing and delivering effective immersive science and STEM CPD to teachers, technicians and others. He also regularly designs and develops STEM projects overseas, to help countries develop effective STEM teaching. Mark specialises in practical STEM activities, linking different subject areas to develop students' understanding and application of their subject knowledge, with real life contexts and challenges.



### PROFESSOR ANDREA TOWNSEND-NICHOLSON

Andrea Townsend-Nicholson holds a chair in Biochemistry & Molecular Biology at University College London. Her research focuses on understanding the molecular basis of cell surface receptor function in health and disease using a combination of experimental and computational methodologies. Andrea is particularly interested in facilitating the introduction of personalised medicine into clinical practice and in the development of computational methodologies that converge with experimental findings. She teaches medical and undergraduate bioscience students to use supercomputers as part of their taught university curriculum.

# The Department Development Programme

This Residential acts as an induction onto The PTI Department Development Programme. The Programme is an ongoing, high-quality professional development pathway which offers guidance, celebration of your achievements and annual recognition of your department's work through the award of The PTI Mark.



**You will be encouraged to reflect on your current provision and then develop subject-focused objectives across four areas:**

- Promoting coherence and quality of challenge within the curriculum.
- Extending and enthusing pupils through subject-based activities that go beyond the curriculum.
- Encouraging teachers to develop, explore and share their own specialist subject knowledge.
- Raising the profile of your subject in school and beyond.

Programme **membership is free** for the first year (or included in PTI Unlimited membership)

Year-round support is available from our programmes team. Please contact [programmes@ptieducation.org](mailto:programmes@ptieducation.org) or call **020 3174 1235**.

“

**PTI Department Development Programme member**

*“I cannot express how valuable the Department Development Programme is, not only does it allow subject specialists time to discuss together and share ideas, it also allows for continued developmental links with key research through university lecturers.”*



## Benefits of being a PTI Department Development Programme Member



### **A FREE PLACE AT OUR ANNUAL DDP DAY**

*Join us in July 2026 for a reunion day with colleagues from this course*

Listen to high-quality speakers, share expert practice and discuss rich subject provision within and beyond the classroom. Reconnect with those on this course and meet inspiring teachers from across the country to share your achievements for the year.



### **EARN THE AWARD OF THE PTI MARK**

*Gain recognition for excellent subject teaching within your department*

At the DDP Day, you'll be awarded The PTI Mark once you demonstrate progress in your objectives which you will begin to define during this residential. During your journey, you'll get academic support proven to help deliver exceptional subject leadership.



### **A WEALTH OF SUBJECT-SPECIFIC CPD AND RESOURCES**

*Your membership includes free access to online courses and much more*

As a member, you can log in to The PTI Staffroom which contains over 5,000 resources. This includes recorded lectures, presentations and lesson ideas. You can also book onto our subject-focused CPD Online Courses, which take place throughout the year, for free.

## After the residential - what's next?

### **Before the end of November**

Confirm your objectives with your department and your SLT.

### **November 2025 to May 2026**

1. Work on your objectives and strengthen your department.
2. Upload a unique teaching resource onto The PTI's online Staffroom, to add to our collection of thousands of resources available exclusively to our members.
3. Attend two online forums

### **July 2026**

Attend The PTI DDP Day, where your cohort from this residential will join the rest of our members for a day of inspiring subject-knowledge enhancement, networking and sharing experiences with like-minded colleagues. You will set objectives for the following year to build on your achievements, and those who have made progress will be awarded The PTI Mark. Collect your PTI Mark Certificate.

### **September 2026**

Formal award of The PTI Mark.

### **November 2026**

PTI banner sent to your school to recognise departments that have achieved the Mark.

## PTI Unlimited

Schools can join PTI Unlimited, our most comprehensive membership option, and get full and free access to all of our CPD courses, events, programmes and resources for leadership, subject departments and teachers. Some of the benefits are listed below:

- ✓ Places on one-day subject-focused CPD and online courses for teachers at all levels.
- ✓ Places for subject leaders on three-day Subject Enrichment Residentials.
- ✓ Places for early career teachers and non-specialists on a three-day Saturday development course.
- ✓ A place for headteachers on a two-day Leadership Symposium.
- ✓ Places on a 18-month accreditation course for aspiring and established Subject Leaders.
- ✓ Places for senior leadership team members on The PTI Leadership Programme.

### Subjects

We currently run courses in the following subjects:

Art, D&T, English, Geography, History, Maths, Music, MFL, PE, RE, Science and Leadership.

### Contact us

If your school would like to find out more about PTI Unlimited, you can contact Heloise Devaney-Jones by emailing [heloise.devaney-jones@ptieducation.org](mailto:heloise.devaney-jones@ptieducation.org) or calling 020 3174 3106.



PTI Unlimited price per  
school per annum just

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+VAT

## What's coming up at the PTI

### CPD FOR TEACHERS AT ALL LEVELS

**In-person CPD Subject Days** | Autumn, Spring and Summer Term

**CPD Online Courses** | Autumn, Spring and Summer Term

### CPD FOR ECTS AND TRAINEES AND NON-SPECIALISTS

**In-person Subject Expertise Certificate** | Autumn, Spring and Summer Term | London, Leeds, Manchester

### CPD FOR SUBJECT LEADERS & ASPIRING SUBJECT LEADERS

**Middle Leader Certificate** | Autumn, Spring and Summer Term | Online

**Subject Enrichment Residential** | Summer 2026

**DDP Day** | Summer 2026

### CPD FOR LEADERSHIP & ASPIRING SCHOOL LEADERS

**Leadership Symposium** | February 2026

**Leadership Programme** | Autumn, Spring and Summer Term | London

### CPD FOR PRIMARY

**Leadership Symposium** | February 2026

**Primary Hubs** | Autumn, Spring and Summer Term

**Virtual Primary Hubs** | Autumn, Spring and Summer Term

For more information visit [www.ptieducation.org](http://www.ptieducation.org)



Inspirational professional development  
*for teachers and school leaders*

INSPIRING TEACHERS  
CHANGING LIVES

