



# Primary STEM Workshops & Resources 2024 - 2025



# 2024-2025 Update...



## Workshop Update...

Welcome to our 2024-25 Primary STEM Workshop booklet!

We are pleased to say that we have held prices for another year!

Our brand new website launched this Spring in conjunction with celebrating our 40th year has lots more information on and resources to help you bring STEM to your classroom *link below*:

<https://www.stempoint.org.uk/primary>

Please let us know if you have any queries or comments - we welcome your feedback.

We are also continuing to offer schools the chance to have a free STEM Role Model visit either in person or virtually; for more details, see page 27. You can request a STEM Ambassador free-of-charge to support any of your STEM topics – just let us know and we can arrange this (*subject to their availability*). Don't forget, STEM Ambassadors are also great for cross-curricular topics including literacy!

Our online Teach Meets and primary competitions have proved really popular over the last few years, and we continue to offer these services, so look out for flyers with forthcoming opportunities. Or join our [E-Mailing List](#) so you don't miss out!

We look forward to being invited back into your schools over the next academic year to help inspire your children with our fun, exciting, educational and hands-on STEM workshops all linked to the National Curriculum!

## To book one of our workshops online go to:

<https://share-eu1.hsforms.com/10x4Rcm3oRRyHNOHZ9Hp4Ag2dbud8>

Or contact Helen Bailey directly using the email below:

[h.bailey@stempoint.org.uk](mailto:h.bailey@stempoint.org.uk)



# Workshops

Key: Colour Coded



Science



Computing



Design &  
Technology



Maths

## Page numbers:

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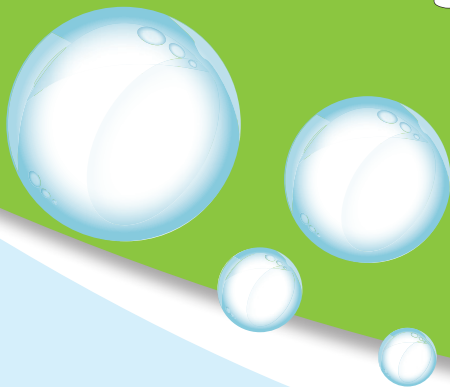
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Specialist Maths  
Workshops

5 6

# Bubbles

## Exploration and investigation



Foundation Stage and Key Stage 1 children explore bubbles in an exciting and interactive way.

Most children have blown bubbles at this age and this workshop encourages the children to discuss what bubbles are made of, where bubbles are found, including making bubbles using household items to:-

- investigate the best way of blowing bubbles
- observe bubbles for colours and shapes
- experiment using everyday items to blow bubbles
- predict and test what happens with different shaped bubble blowers
- create bubble pictures.

### National Curriculum links

Full Curriculum Links plus Non-Statutory Opportunities available at:

[Bubbles National Curriculum Links](#)

**This workshop needs to take place in the school hall.**

**Cost:** A whole day: 3 x 1 1/4 hours approx. sessions/workshops at £390 per day  
Morning only: 2 x 1 1/4 hours approx. sessions/workshops at £265 per morning  
All materials and equipment provided. Maximum class numbers = 36 pupils

**Helpers:** You will need to provide 5 adult helpers in addition to the class teacher for each session/workshop



# Splash!

## Investigations and predictions



**'Splash' is WET, involving a lot of water, so it has to be done outdoors.**

We only offer it from May to July and the workshop can go ahead even in the rain! Splash is a Upper Foundation and KS1 interactive science workshop, involving lots of scientific enquiry.

### **Activities include:**

- racing different shaped boat hulls
- exploring the reasons why some things float and some sink
- working as a team to build a functioning water supply
- exploring the effects of different sized sails
- testing to see which paddle is best to propel a boat forward

**The aims are for your children to have lots of fun and enjoyment in solving problems by:**

- asking questions and deciding how to find answers to them
- thinking about what might happen before deciding what to do
- recognising if a test is fair
- carrying out an investigation, and making observations
- comparing what actually happened with their predictions
- describing what happened and trying to explain why.

### **National Curriculum links**

Full Curriculum Links plus Non-Statutory Opportunities available at: [Splash National Curriculum Links](#)

**Cost:** A whole day: 3 x 1 1/4 hours approx. sessions/workshops at £390 per day  
Morning only: 2 x 1 1/4 hours approx. sessions/workshops at £265 per morning  
All materials and equipment provided. Maximum class numbers = 30 pupils

**Helpers:** You will need to provide 5 adult helpers in addition to the class teacher for each session/workshop



# Me and My Senses

## Explore Senses through Practical Investigations



This workshop has been running with great success in Hertfordshire schools for a number of years and is an ideal interactive workshop to do alongside classroom work on 'Ourselves'. The children move through a series of activities with their accompanying adult, using a 'record card' for their observations and measurements such as hair colour, hand span, fingerprints etc. Other activities encourage them to test their senses and investigate their bodies' capabilities.



Teachers have commented that this is the perfect consolidation or preparation for the 'Animals including Humans' science units and a wonderful opportunity for all children to take part in investigative science.

Parent helpers enjoy actively participating in their children's learning and also finding out more about the science curriculum at KS1.

### National Curriculum links

Full Curriculum Links plus Non-Statutory Opportunities available at: [Me & My Senses National Curriculum Links](#)

**This workshop needs to take place in the school hall.**

**Cost:** A whole day: 2 x 2 1/4 hours sessions/workshops at £390 per day  
Morning only: 1 x 2 1/4 hours sessions/workshops at £265 per morning  
All materials and equipment provided. Maximum class numbers = 45 pupils

**Helpers:** You will need to provide 6 adult helpers in addition to the class teacher for each session/workshop



# Light and Dark



Light cannot be tasted, heard, felt or smelt - but it can be seen, and children can have a lot of fun finding out about it.

This workshop gives Reception, KS1 and lower KS2 children the opportunity to explore light in an exciting and active way, building upon ideas taken from Light and Dark in the curriculum.

Each workshop comes in two parts:

- Using a variety of light sources, a 'blackout tent' and various different objects, children develop the understanding that light is needed in order to see, and that darkness is the absence of light. Using mirrors and periscopes they investigate how light travels. We bring a selection of toys that use light and shadow screens which children can use to explore shadows for KS2.

- In the second part of the workshop each child makes a small kaleidoscope to take home. They also have an opportunity to go in our black-out tent to see how light is used to stimulate their senses.

**This workshop needs to take place in the school hall which needs to be made as dark as possible.**

## National Curriculum links

Full Curriculum Links plus Non-Statutory Opportunities available at:

[Light & Dark National Curriculum Links](#)

**Cost:** A whole day: 3 x 1 1/4 hours approx. sessions/workshops at £390 per day  
Morning only: 2 x 1 1/4 hours approx. sessions/workshops at £265 per morning  
All materials and equipment provided. Maximum class numbers = 30 pupils

**Helpers:** You will need to provide 5 adult helpers in addition to the class teacher for each session/workshop



# Materials Yr1

## What are things made of?



This popular workshop in schools, allows pupils to ask questions such as - What are things made of? Why do we use a particular material for something? What properties does that material have to make it good for purpose?

In small groups, children carry out hands-on, exciting activities to help them meet the 'Everyday Materials' element of the Year 1 programme of study.

Activities include, sorting a large set of everyday items, vocabulary developing games and workshop leader led discussion. For the final activity, we use a well-loved traditional tale to engage the class's problem-solving abilities in carrying out a practical experiment.

**The workshop works best in the classroom.**

### National Curriculum links

Full Curriculum Links plus Non-Statutory Opportunities available at:  
[Materials Yr1 National Curriculum Links](#)

**Cost:** A whole day: 3 x 1 1/2 hours sessions/workshops at £390 per day  
Morning only: 2 x 1 1/2 hours sessions/workshops at £265 per morning  
All materials and equipment provided. Maximum class numbers = 30 pupils

**Helpers:** You will need to provide 5 adult helpers in addition to the class teacher for each session/workshop





# Materials Yr2

## What are things made from and why?



What are things made from? Why is one material better for a job than another material? How do we decide which material to use?

In pairs, children carry out practical activities designed to support the 'Uses of Everyday Materials' element of the Year 2 programme of study.

### Activities include:

- an odd one out challenge
- testing a range of everyday objects for particular properties
- exploring how waterproof different materials are
- using their knowledge to apply a waterproofing layer and testing it

**This workshop works best in the classroom.**

### National Curriculum links

Full Curriculum Links plus Non-Statutory Opportunities available at:

[Materials Yr2 National Curriculum Links](#)

**Cost:** A whole day: 3 x 1 1/2 hours sessions/workshops at £390 per day  
Morning only: 2 x 1 1/2 hours sessions/workshops at £265 per morning  
All materials and equipment provided. Maximum class numbers = 30 pupils

**Helpers:** You will need to provide 1 adult helper in addition to the class teacher for each session/workshop



# Circus

## Five fun forces activities



Your pupils will learn how to balance clowns on a piece of string; see how far their foam rockets go; experiment with magnetism; make spinning tops and see what patterns are made and bounce marbles using different sized tubs!

Circus consists of five practical hands-on activities loosely related to the circus, which all your children can enjoy. The children rotate through each activity in groups, investigating a different type of force.

**For lower KS2, the activities are extended.**

Our aim is for your children to have lots of fun and enjoyment in:

- investigating
- making
- experimenting
- comparing

**This workshop needs to take place in the school hall.**

**Cost:** A whole day: 3 x 1 1/4 hours approx. sessions/workshops at £390 per day  
Morning only: 2 x 1 1/4 hours approx. sessions/workshops at £265 per morning  
All materials and equipment provided. Maximum class numbers = 30 pupils

**Helpers:** You will need to provide 5 adult helpers in addition to the class teacher for each session/workshop

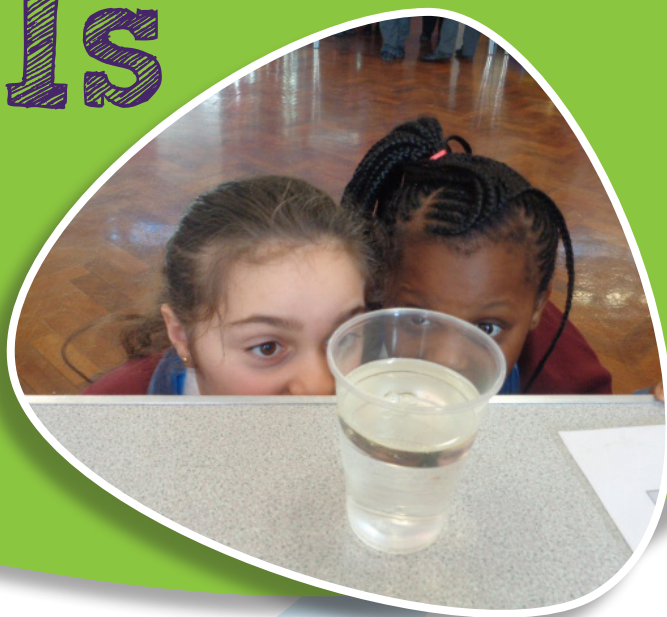
### National Curriculum links

Full Curriculum Links plus Non-Statutory Opportunities available at: [Circus National Curriculum Links](#)

Years  
1, 2, 3  
& 4

# Exploring Materials

Four thought-provoking  
science investigations



Each child will have the opportunity to carry out four different National Curriculum linked practical activities, including classifying, changing and separating materials. Children work through the activities in small groups to create a lava lamp effect; produce gas to blow up balloons; split black ink into all the colours of the rainbow and find out which material is the hardest!

This workshop will help you to deliver some of the curriculum on 'Materials'. STEMPOINT will help to raise children's awareness of how scientists work. It builds home school links - all children can take home instructions on how to carry out the experiments. Children, staff and parent-helpers alike love this fun and exciting workshop.

## National Curriculum links

Full Curriculum Links plus Non-Statutory Opportunities available at: [Exploring Materials National Curriculum Links](#)

**This workshop needs to take place in the school hall.**

**Cost:** A whole day: 3 x 1 1/2 hours sessions/workshops at £390 per day  
Morning only: 2 x 1 1/2 hours sessions/workshops at £265 per morning  
All materials and equipment provided. Maximum class numbers = 30 pupils

**Helpers:** You will need to provide 5 adult helpers in addition to the class teacher for each session/workshop



# Super Power

## Electrical Circuits and Solar Energy?

In this new workshop, children learn how electricity is made and the different methods of generation, both renewable and non-renewable.

Children learn how a simple electrical circuit is made by getting hands on with the equipment provided and learn about standardised electrical symbols. They also investigate the properties of different materials to see if they are electrical conductors or insulators. They then have the chance to become part of a human electrical circuit!

Children also investigate using solar cells, rather than batteries, to provide the power for a circuit. This is done outside, or on very dull days, inside, using our powerful lamps.

**The workshop is best done in the hall but can be adapted for a large classroom.**

**Cost:** A whole day: 2 x 2 1/2 hours sessions/workshops at £390 per day  
Morning only: 1 x 2 1/2 hours sessions/workshops at £265 per morning  
All materials and equipment provided. Maximum class numbers = 30 pupils

**Helpers:** You will need to provide 2 adult helpers in addition to the class teacher for each session/workshop



**National Curriculum links**

[Super Power](#)

[National Curriculum Links](#)



# Miss Smart & the Diamond Thief

## Coding with the BBC micro:bit



Miss Smart owns a very large diamond which she keeps in a safe with a programmable alarm, sensors and lights. She has heard that a gang of thieves are planning to steal the diamond and she must write some computer programs to stop them. Working in pairs your pupils take on the role of programmers, learning how to write code to stop the thieves from stealing the diamond. After some initial exercises your class are encouraged to use their imagination to develop their own solutions to stop the intruders.

### Our aims are to:

- Provide a stimulating and practical activity, suitable for all abilities, which compliments learning in school
- Learn to program the BBC micro:bit computer using block code
- Introduce flow diagrams, sequencing and binary concepts
- Develop logical thinking, analytical and problem solving skills
- Improve team working and communication skills
- Provide an opportunity to use imagination and creativity

**This workshop works best in a classroom.**

**IT suite not needed as we bring all resources.**

### National Curriculum links

Full Curriculum Links plus Non-Statutory Opportunities available at: [Coding with the BBC micro:bit Curriculum Links](#)

**Cost:** A whole day: 2 x 2 1/2 hours approx. sessions/workshops at £390 per day  
Morning only: 1 x 2 1/2 hours approx. sessions/workshops at £265 per morning  
All materials and equipment provided. Maximum class numbers = 30 pupils

Teacher supervision only, although parents with an interest/skill in programming are welcome.



# Smart Toy Engineers

## Bit:Bot Robots



The Smart Toy Company has built several prototypes for a new range of programmable wheeled toys. The design team have called the prototypes Bit:Bot and they want to find out how well the prototypes work. Working in pairs your pupils act as test engineers first learning how to program Bit:Bot, then finding out how Bit:Bot behaves by carrying out a series of experiments and finally using the data collected to program Bit:Bot to successfully navigate a test track.

### Our aims are to:

- provide a stimulating and practical activity suitable for all abilities, which compliments learning in school
- learn how to program the BBC micro:bit computer using block code
- carry out experiments by making accurate measurements, recording results, drawing and interpreting graphs
- develop numeracy, logical thinking, analytical and problem solving skills
- improve team working and communication skills
- provide more experienced programmers the opportunity to use imagination and creativity

**This workshop requires use of the hall. IT suite not needed as we bring all resources.**

### National Curriculum links

Full Curriculum Links plus Non-Statutory Opportunities available at: [Smart Toy Engineers National Curriculum Links](#)

**Cost:** A whole day: 2 x 2 1/2 hours approx. sessions/workshops at £390 per day  
Morning only: 1 x 2 1/2 hours approx. sessions/workshops at £265 per morning  
All materials and equipment provided. Maximum class numbers = 32 pupils

Teacher supervision only, although parents with an interest/skill in programming are welcome, we will provide a volunteer STEM Ambassador to assist this workshop subject to availability.



**This workshop is only suitable for Year 5 pupils from the spring term onwards.**

# Band Rollers

## Using and understanding energy



During this workshop, pupils have the opportunity to investigate the energy required to drive a simple toy and use a range of tools to construct it.

The aims are to provide Years 3 -6 pupils with an enjoyable, stimulating workshop; to investigate the potential energy that can be stored in an elastic band, its release and use to drive/ power a toy.

They are taken step-by-step through the stages in making the band roller, being encouraged to measure, mark out, cut using a junior hacksaw, assemble, join and combine components accurately. They will also learn how to use the tools safely and properly and test the band roller (which they keep) and then race others. Finally they will reflect on the design, identifying ways it could be improved.

**The workshop is best done in the hall but can be adapted for a large classroom.**

### National Curriculum links

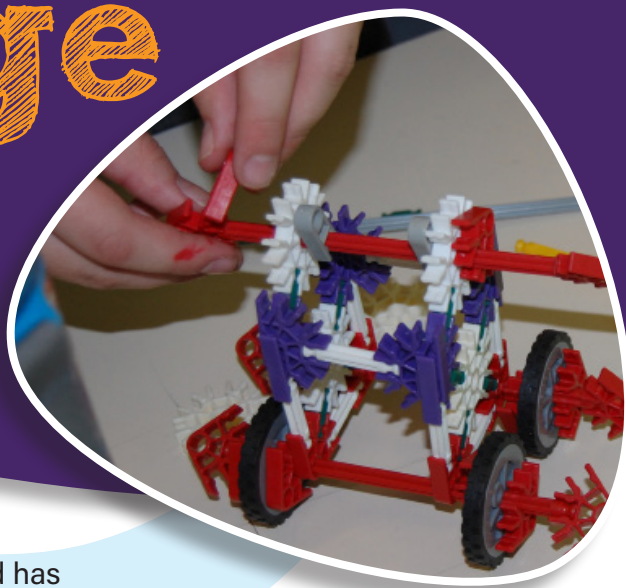
Full Curriculum Links plus Non-Statutory Opportunities available at: [Band Rollers National Curriculum Links](#)

**Cost:** A whole day: 2 x 2 1/4 hours sessions/workshops at £390 per day  
Morning only: 1 x 2 1/4 hours sessions/workshops at £265 per morning  
All materials and equipment provided. Maximum class numbers = 30 pupils

**Helpers:** You will need to provide 3 adult helpers in addition to the class teacher for each session/workshop



# Catapult Challenge



This practical problem-solving workshop is technology based and has been used in the past by schools to fit in with a topic on the Romans but works equally well as a stand-alone exciting engineering challenge for your class.

During the workshop, children will be guided through the main parts of catapult construction, each making a small catapult which they can keep. They will then work in pairs to use construction kits, provided by us, to tackle a challenge set by the workshop leader. There is a competitive element to the challenge with certificates awarded in specific categories. Every child is encouraged to review their own successes during the workshop and is awarded a personalised certificate of achievement.

**This workshop can take place in the classroom.**

## National Curriculum links

Full Curriculum Links plus Non-Statutory Opportunities available at: [Catapult Challenge National Curriculum Links](#)

**Cost:** A whole day: 2 x 2 1/2 hours sessions/workshops at £390 per day  
Morning only: 1 x 2 1/2 hours sessions/workshops at £265 per morning  
All materials and equipment provided. Maximum class numbers = 30 pupils

**Helpers:** You will need to provide 1 adult helper in addition to the class teacher for each session/workshop





# Plastazote

## A SMART material workshop



During this workshop each pupil designs and makes a Plastazote model/mask of their own to take home. The models made are usually pre-arranged to tie into your own teaching plans.

Plastazote is a SMART material with properties that can be significantly changed in a controlled way by external stimuli, in this case, temperature. It is safe, non-toxic polyethylene foam. It can be cut with scissors, marked with pencil or biro & joined. Its real impact is when it is MOULDED into fantastic shapes through the use of heat.

### Science:

- Investigate the characteristics of the material and relate these to a variety of commercial uses

### Design & Technology:

- Use your imagination to create amazing 3D masks and mini-beasts or link it to other projects you are working on.

### National Curriculum links

Full Curriculum Links plus Non-Statutory Opportunities available at: [Plastazote National Curriculum Links](#)

**This workshop works best in the hall.**

### Cost:

A whole day: 2 x 2 1/2 hours sessions/workshops at £390 per day

Morning only: 1 x 2 1/2 hours sessions/workshops at £265 per morning

All materials and equipment provided. Maximum class numbers = 30 pupils

### Helpers:

You will need to provide 4 adult helpers in addition to the class teacher for each session/workshop



# Balloon Buggies

Learn forces and motion  
through D&T



Balloon Buggies is a fun, practical workshop in which the pupils have the opportunity to investigate factors affecting the movement of a balloon-powered buggy. Initial investigations are with Lego, then the children make their own buggy with wood and plastic and test it. The aims are to provide Year 5 and 6 pupils with an enjoyable and stimulating workshop; to investigate the design possibilities of a balloon powered buggy using Lego; to develop their ideas and explain them clearly, planning their own buggy within certain boundaries. They are encouraged to measure accurately and use tools properly to measure, mark out, cut using a junior hacksaw, assemble, join and combine components accurately. They will also learn how use the tools safely and properly, to test the buggy (which they keep) and then race others. Finally they reflect on the design, identifying ways it could be improved.

## National Curriculum links

Full Curriculum Links plus Non-Statutory Opportunities available at: [Balloon Buggies National Curriculum Links](#)

**This workshop requires use of the school hall.**

**Cost:** A whole day: 2 x 2 1/2 hours sessions/workshops at £390 per day  
Morning only: 1 x 2 1/2 hours sessions/workshops at £265 per morning  
All materials and equipment provided. Maximum class numbers = 30 pupils

**Helpers:** You will need to provide 3 adult helpers in addition to the class teacher for each session/workshop



Years  
5 & 6

# Moving Toys

## Cam mechanisms



A design & technology practical activity in which the pupils learn about controlling movement with a cam mechanism as a simple toy.

Pupils investigate a collection of moving toys containing cam mechanisms that produce different movements. The children then construct their own moving toy/cam mechanism using various materials, which they keep.

Our aim is to provide Yr 5 & 6 pupils with an enjoyable stimulating workshop. Children will:

- Learn about different types of cam mechanisms and the movements they produce - understand the characteristics of each component part and its use - measure, mark out, cut, join, assemble and combine components accurately - learn how to use tools safely and accurately.

Children will then be encouraged to test the finished mechanism and to reflect on what they have made.

**The workshop is best done in the hall but can be adapted for a large classroom.**

### National Curriculum links

Full Curriculum Links plus Non-Statutory Opportunities available at: [Moving Toys National Curriculum Links](#)

**Cost:** A whole day: 2 x 2 1/2 hours sessions/workshops at £390 per day  
Morning only: 1 x 2 1/2 hours sessions/workshops at £265 per morning  
All materials and equipment provided. Maximum class numbers = 30 pupils

**Helpers:** You will need to provide 3 adult helpers in addition to the class teacher for each session/workshop



# Motivating Maths Workshop

Led by Karen Gordon - Maths Advisor

This workshop is an excellent opportunity for pupils in Years 5 & 6 who are currently working below expectations for their age and need a boost. The day includes problem solving and confidence building, activities to encourage the children to have fun with maths, at the same time motivating them to achieve their potential.

**This is also a fantastic CPD opportunity for teachers.**

You may nominate a minimum of 4 pupils for this workshop. All children and accompanying adults are expected to bring along a packed lunch for the day and all children to wear their school uniform.



**Usually 2 date options and host schools to choose from & our Help & Prepare for SATS Maths Workshop for year 6 pupils.**

**For more information please contact:**

**[h.bailey@stempoint.org.uk](mailto:h.bailey@stempoint.org.uk)**



**Please note -**

If you are interested in hosting one of these workshops, you will receive 6 pupil places free of charge!

**Please get in touch if you are interested!**

**Cost: £25 per pupil (no cost for the accompanying teacher) Pupil(s) MUST be accompanied by a teacher, governor or TA from the school (not a parent).**

# Help & Prepare for SATS Maths Workshops

Led by Karen Gordon  
- Maths Advisor & Assessor

These fantastic 'Help and Prepare' for SATS Maths Workshops take place in the few weeks leading up to the year 6 SATS and are very popular so book on fast!

**Places fill up quickly so please look out for flyers relating to these workshops or contact us for more details.**

**Includes resources for teachers  
to take away!**

Our 'Help & Prepare for SATS' series is aimed at those Achieving ARE (Age-Related Expectations) and have been written for pupils in Year 6 who are getting ready for their upcoming SATS.

**Achieving ARE** workshops help pupils get to grips with mathematics and problem-solving.

**Look out for flyers like this for up and coming dates next Spring we will release dates earlier next year to help you plan!**

**If you are interested in hosting one of these Maths Workshops please get in touch for more details!**

**STEMPOINT** Help & Prepare for SATS - Maths Workshop  
Helping to Achieve Age Related Expectations

**Led by Karen Gordon - Maths Advisor**

Following the success in previous years, we are pleased to offer the 'Help & Prepare for SATS' series once again this academic year. Suitable for pupils in Year 6 who need to get to grips with mathematics and problem-solving to help them achieve age related expectations (ARE).

A full day to review the knowledge and skills required for the upcoming SATS.  
**This is also a fantastic CPD opportunity for teachers.**

**Cost: £25 per pupil** (no cost for the accompanying teacher) Pupils **MUST** be accompanied by a teacher or TA from the school (not a parent).  
**Places will fill up fast so please don't delay!**

We have 2 date options/host schools to choose from:

|   |   |
|---|---|
| <b>Date:</b> 16th April 2024<br><b>Time:</b> 9:00am - 3:00pm<br>Hempstead | <b>Date:</b> 30th April 2024<br><b>Time:</b> 9:00am - 3:00pm<br>Stevenage |
|---|---|

**To Register please follow the link below:**  
<https://forms.office.com/e/vqWZzDEEa6>

You may nominate up to 6 pupils for this workshop. All children and accompanying adults are expected to bring along a packed lunch and drink for the day and all children to wear their school uniform.

**NB: Places are allocated on a first come first served basis. Once we have received your registration, we will email you to confirm your places. Once confirmed, we are unable to offer refunds unless your places can be offered to another school on the waiting list.**

**To join our E-mailing List scan the QR code:**

**Cost: £25 per pupil (no cost for the accompanying teacher) Pupil(s) MUST be accompanied by a teacher, governor or TA from the school (not a parent).**

# British Science Week 2025 & STEMPPOINT Resources

## This year's BSW 'Create-a-Tree' Primary Paper Engineering Challenge 2024 was a great success!

A free, fun, practical, problem-solving competition for all primary school children to take part before and during British Science Week - 7th to 16th March 2025

**Look out for flyers sent to schools in the Autumn Term!**

**Funding available from British Science Association for underrepresented schools:**

If you work with underrepresented groups in STEM, there is financial support available to cover the costs of undertaking awards. Grants are closed and will reopen again in the Autumn term

More details here:

<https://help.crestawards.org/portal/en/kb/articles/crest-for-underrepresented-audiences-funding>

## Primary Loan Resources

We have equipment that schools can borrow to enhance science/technology weeks or other projects. You can book by telephone or email - collection and delivery is via the STEMPPOINT office in Stevenage. Some items are very popular, so do book early!

There is a small administrative charge of **£15 per loan**. We rely on you ensuring that all kits are returned in a timely fashion, correctly sorted and packed, please.

**K'NEX construction boxes** (10 per school) - 4 pupils per box can work in teams to build a large model. Contact us for ideas of what to build or visit: <https://www.knexusergroup.org.uk/en/knex-free-downloads.html>

**FUNMATHS RoadShow boxes** Loan comprises of a set of 4 boxes suitable for years 1 - 6. Each box consists of 25 activities. Supervision is needed. A fantastic resource to enhance maths learning in a fun way. To book one of these resources please email: [admin@stempoint.org.uk](mailto:admin@stempoint.org.uk)



# Enrichment Ideas

## STEM Ambassadors



### Who are STEM Ambassadors and how can they help?

STEM Ambassadors work or study in a STEM field and are passionate about communicating their subject to young people. Ambassadors are free of charge and can support teachers in curricular and extra-curricular work as well as encourage pupils to further explore the world of science, technology, engineering and mathematics. They work with both teachers and pupils in a variety of ways such as helping with our primary workshops, technology challenges, giving talks or answering questions by email and are also a valuable resource for science or technology clubs.

### A Free Resource for Schools!

To request a **STEM Ambassador** teachers need to open a free STEM Learning account so that you can request STEM Ambassadors direct from the platform:



<https://www.stem.org.uk/stem-ambassadors/schools-and-colleges>

Or visit the link below for lots of FREE STEM activities to support schools:

<https://www.stem.org.uk/>

### Request a Role Model for your School

We're offering primary schools across the East of England the chance for pupils to (virtually) meet someone working in STEM - Science, Technology, Engineering and Maths, including the Space Industry!

A STEM Ambassador will talk about their job, how exciting/interesting it is and what made them choose that path.

**Interested? Get in touch or:**

**[REGISTER HERE!](#)**

**STEMPOINT**

**Role Models in STEM**  
**'Meet a STEM Ambassador'**

We're offering primary schools across the East of England the chance for pupils to meet (virtually or face to face) someone working in STEM - (Science, Technology, Engineering and Maths)

This could be online at an assembly during a class lesson or at an after-school club.

Would you be interested in receiving a free, 30-60 minutes talk from one of our STEM Ambassadors?

The talks will be aimed at years 4, 5 & 6.

A STEM Ambassador will talk about their job, how exciting/interesting it is and what made them choose that path. The visit can be set up by you via video link or in person invited into your school, and they may use Powerpoints, videos, pictures, cartoons, or talk straight to the camera to make it engaging and accessible for your pupils. STEM Ambassadors are asked to share the presentation with you in advance and they all hold a DBS Enhanced Certificate. You can choose the area of STEM you are interested in when you register online via the link below:  
<https://forms.office.com/fp/FZUSmxEu>  
For more information contact: [h.bailey@stempoint.org.uk](mailto:h.bailey@stempoint.org.uk)

# CREST Awards

## CREST Awards and Resources

The **CREST Awards scheme** is an education scheme run by the British Science Association for young people, providing science enrichment activities to inspire and engage 5-19 year olds. **CREST** gives pupils the chance to participate in hands-on science through investigations and enquiry-based learning, supporting them to solve real-life STEM challenges through practical investigation and discussion. CREST Awards can be run in schools, after school clubs, or at home. **The BSA have recently added 8 brand new CREST Star activities for Early Years 3 to 5 years - Earth and Beyond!** [https://primarylibrary.crestawards.org/#tab\\_8gj07kXQVsxtMrfh](https://primarylibrary.crestawards.org/#tab_8gj07kXQVsxtMrfh)

With CREST, children will have fun developing their problem solving and communication skills.

**Star and SuperStar levels** are designed to be easy-to-run for children typically aged 5-7 and 7-11 years. Children gain an Award by completing eight challenges, which are available to download from the CREST resource library. They also provide helpful tips sheets for you to use, explaining the scientific themes and offering guidance on conversation topics for your children.

You can download **CREST Star and SuperStar** passport templates for your pupils to track their progress once you create a free account. When your pupils have completed 8 different 1 hour activities, they can receive a certificate and a fabric badge for the cost of £1 per pupil.

**CREST Discovery Awards** are great for years 5 & 6 , £3 per pupil and 5 hours of work - Machine Learning - AI project is a great one to start with this term, low cost resources with a topic which is extremely current!

<http://www.crestawards.org/run-crest-awards/crest-star/>

**For free resources** and ideas for activities to download go to:

<https://primarylibrary.crestawards.org/>





# Other Resources and links

## STEMPOINT

### For free STEM learning resources

go to: <https://www.stem.org.uk/resources>

### Other resources

Amazonas Comics: <http://amazonascomics.com/>

Association for Science Education: <https://www.ase.org.uk/resources>

CREST Awards: <https://primarylibrary.crestawards.org/>

Explorify: <https://explorify.uk/>

Hertfordshire Opportunities Portal: <https://www.hopinto.co.uk/>

Institution of Civil Engineers: <https://www.ice.org.uk/knowledge-and-resources/ice-library>

Institute of Mathematics & Its Applications/Maths Careers: <https://www.mathscareers.org.uk/>

Institution of Mechanical Engineers: <https://www.imeche.org/careers-education>

Institute of Physics: <https://www.iop.org/education/index.html>

Mitsubishi Electric - The Learning Curve: <https://www.the-learning-curve.org.uk/home>

Primary Science Teaching Trust: <https://pstt.org.uk/>

Royal Society of Biology: <https://www.rsb.org.uk/teachers>

Royal Society of Chemistry: <https://edu.rsc.org/>

SPACE Booklet: <https://www.stempoint.org.uk/resources>

Tomorrow's Engineers: <https://www.tomorrowseengineers.org.uk/>

Wellcome Genome Campus: <https://publicengagement.wellcomegenomecampus.org/>



**Don't miss out on our posts on social media. Follow us on:**



Twitter: [@STEMPOINT\\_](https://twitter.com/STEMPOINT_)



& Facebook: [STEMPOINT](https://www.facebook.com/STEMPOINT)

# Useful Information including Cancellation Policy

40<sup>th</sup> Anniversary

STEMPOINT

## STEMPOINT.....

You will see our new logo - STEMPOINT - on all of our information that we send to schools. Our new STEMPOINT logo will appear on our Primary Newsletter as well as flyers and the launch of our brand new website to reflect 40 years of service to schools. <https://www.stempoint.org.uk/en-gb/home>



## Please book early...

Demand for workshops can be high, especially during British Science Week which takes place in March, therefore we recommend that you book early to avoid disappointment. However it is always worthwhile giving us a call to check availability.

**Please note we have a new mainline telephone number: 01438 419450 or 01438 419451 direct line to primary coordinator.**

All our workshop leaders and helpers have a current Enhanced DBS Certificate.

## Adult helpers:

Our workshops cannot take place without the help of adults/parent helpers, which the school must provide. The number varies depending on workshop (this information is included in this booklet). We ask that the class teacher is not included in this number, as they will need to monitor the class and interact where necessary. Why not consider utilising our [STEM Ambassadors](#) for when parents are unable to get involved.

## For the Specialist Maths Workshops:

Places are allocated on a first come first served basis. Once we have received your registration, we will email you to confirm your place(s). Once confirmed, we are unable to offer refunds unless your place(s) can be offered to another school on the waiting list. Please note, once you have registered you will be invoiced even if you fail to attend on the day.

## Cancellation policy for all workshops:

If you reschedule for another date there will be no cancellation charge as long as we have at least 2 week's notice. *A charge of £50 will be made if you reschedule within 1 week.*

If a workshop is cancelled more than 8 weeks in advance, no charge will be made.

If a workshop is cancelled less than 8 weeks in advance, a charge of £50 will be incurred.

If a workshop is cancelled less than 1 week in advance, a charge of £150 will be incurred.

You will be invoiced after the workshop takes place unless otherwise requested.

**Safeguarding Policy** - This can be requested at any time via [admin@stempoint.org.uk](mailto:admin@stempoint.org.uk)

**Bad Weather** - We reserve the right to postpone workshops due to extreme weather conditions.

# Useful Information Continued;

## Whole days and morning only sessions:

If you have a small group/school, we offer morning session/s for almost all our workshops.

Morning sessions: These consist of either one or two workshops depending on the workshop itself.

Most upper KS2 workshops have only two sessions per day, one in the morning and one in the afternoon.

In some cases we can offer two different workshops morning and afternoon to suit smaller schools, however you will need to call the office to arrange. Please note: this does not apply to all of our workshops.

## National Curriculum:

The updated National Curriculum links are available on each workshop page in this booklet.

**Please note:** our workshops may not cover all of the links in great depth as we are restricted by time.

**And don't forget....all our workshops provide lots of opportunities for you to gather photographic evidence for your records.**





STEMPOINT is an educational charity whose aim is to inspire young people about STEM.

We have 40 years' experience of delivering high-quality STEM workshops to both primary and secondary schools, and provide insight and greater awareness of how STEM subjects can lead to fascinating and worthwhile careers.

***MBDA***

We are hosted by a large engineering company in Stevenage. Thanks to their generous support, we are able to offer our workshops at a subsidised price to schools.



**Telephone: 01438 419450**

**Email: [admin@stempoint.org.uk](mailto:admin@stempoint.org.uk)**

**[www.stempoint.org.uk](http://www.stempoint.org.uk)**

**STEMPOINT  
at MBDA  
Six Hills Way  
Stevenage  
Hertfordshire  
SG1 2DA**

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