

PROGRAMME OF EVENTS

Key Stage 2 & 3



Bradford
Science
Festival

17th – 19th
October 2012

SCIENCE FACT,
SCIENCE FICTION,
SCIENCE FUTURE SF³



UNIVERSITY OF
BRADFORD
MAKING KNOWLEDGE WORK

THE BRADFORD SCIENCE FESTIVAL IS BROUGHT TO YOU WITH SUPPORT FROM

Bradford
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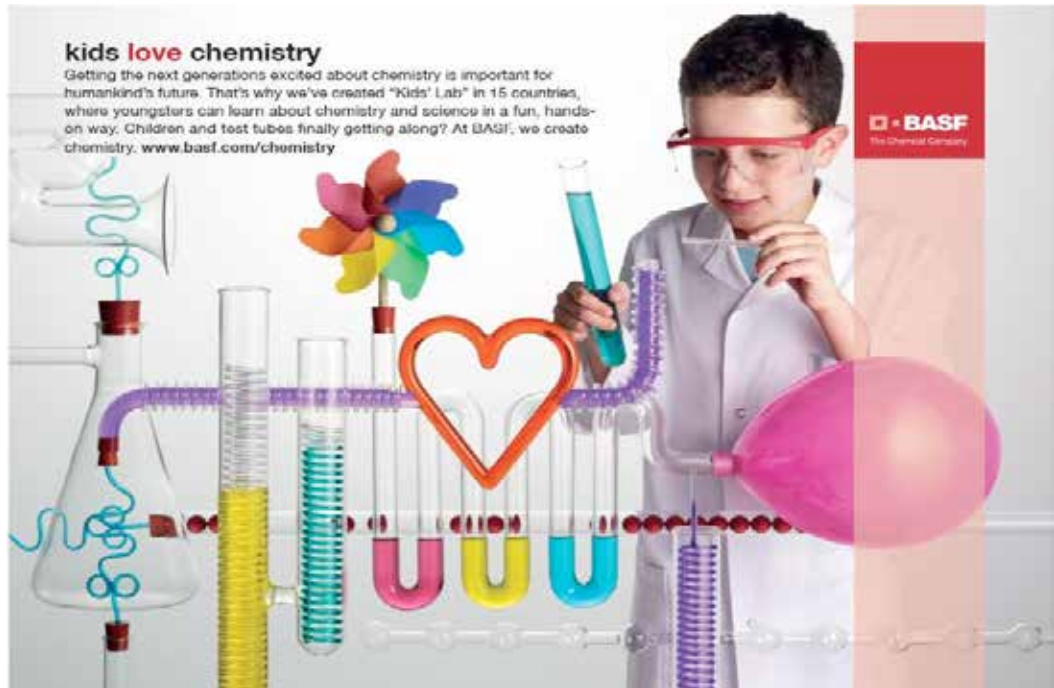
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kids love chemistry

Getting the next generations excited about chemistry is important for humankind's future. That's why we've created "Kids' Lab" in 15 countries, where youngsters can learn about chemistry and science in a fun, hands-on way. Children and test tubes finally getting along? At BASF, we create chemistry. www.basf.com/chemistry

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YORKSHIRE
young ACHIEVERS
foundation

this is chemistry



WELCOME TO THE FIRST BRADFORD SCIENCE FESTIVAL!



FOLLOWING ON FROM THE AMAZING SUCCESS OF THE BRITISH SCIENCE FESTIVAL LAST YEAR, WE ARE DELIGHTED TO INTRODUCE THE WORKSHOPS, TALKS AND SHOWS THAT ARE PART OF THE SCHOOLS' PROGRAMME THIS YEAR.

Delivered by experts from all areas of the United Kingdom, the Festival offers a unique opportunity for young people to shine the spotlight on the practical application of science through new and exciting interactive events. The Festival is designed to stimulate curiosity in the world near and far, as well as provide a glimpse of the possibilities for a career in the STEM subjects. All the Festival activities are taking place in central city locations including City Hall, The National Media Museum and Hand Made in Bradford.

This year, we are thrilled to include a science and literacy collaboration, so please check out the Sci-Fi writing challenge, coordinated by the Bradford Telegraph and Argus.

PLANNING AND BOOKING YOUR DAY AT THE BRADFORD SCIENCE FESTIVAL

**ONLY £6 PER CHILD PER DAY
(ACCOMPANYING ADULTS ARE FREE.)**

1. Decide which day/s you would like to visit the Festival.
2. Look at the event descriptions for the appropriate Key Stage and decide which you would like to attend. Note the maximum number of places and be prepared to split your group as necessary.
3. You should choose 4 activities. Remember to have 2nd and 3rd choices ready, just in case your 1st choice is not available.
4. Call the booking line on **0845 652 2406** Monday to Friday 10.00 -16.30

MAKE YOUR PAYMENT

After booking you will receive confirmation and an invoice. We will require payment before the final confirmation is sent out. Please make cheques payable to the STEM Education Trust and send to Space Connections, Inspire Bradford Business Park, Newlands Way, Bradford BD10 0JE.

INFORMATION

You will receive final confirmation before the Festival. This will include the locations of the events and details of coach parking if required.

If you need any more help or information, the team at Space Connections are here to help and can be contacted on **0845 652 2406** or email **amber@spaceconnections.net**

SPECIAL ACCESS NEEDS

All venues for events, workshops and exhibitions in this programme are fully accessible, however if any member of your party has special access needs please let us know at the time of booking.

VENUE AND FACILITIES

Events will take place Bradford College, Bradford Council, The National Media Museum, Bradford University, Gumption, Bradford 1 Gallery, Hand Made in Bradford and Colour Experience.

GETTING THERE

All the venues are within easy walking distance of the centre of Bradford.

A drop off point for coaches will be allocated on the final confirmation. Coaches will then be able to park nearby. Each School will be allocated a STEM Ambassador who will escort them to their designated activity and venue.

LUNCH

Students will be required to bring along a packed lunch – a designated area for eating lunch will be provided – the location will be specified in the final confirmation.

CLOAKROOM

You are advised that there will be no facilities for leaving coats and bags.

OTHER ACTIVITIES

The Young People's Programme is part of a wider celebration of science, engineering and technology. Events for adults and families will take place from 17-21 October. You can find more information about these events on our website www.bradfordsciencefestival.co.uk

SAFETY AND SECURITY

Please ensure that there is at least 1 adult to every 8 children in your party. The Bradford Science Festival is open to all, so children should be accompanied by an adult at all times. Responsibility for the safety of pupils lies with the accompanying adults and not with workshop providers, Bradford Science Festival staff or Festival assistants.



'CREATIVE STEM' TEACHER EVENT

THURSDAY 18TH OCTOBER 2012

Join the STEM Education Trust, and key STEM partners with a host of other national and local STEM providers to meet, greet and find out about the latest educational developments relating to enrichment and engagement in science, technology, engineering and maths (STEM). This session is a 'must' for any teacher or STEM professional, bringing together resources and new ideas in a free, friendly, informal session. Places are limited so book early.

To register for this event
please call 0845 652 2406



Sponsored by



GARGRAVE PRIMARY SCHOOL
"This letter is to thank you very much for the brilliant day out in Bradford. We year six have enjoyed it so much that when we got back to school we couldn't stop talking about all of the wonderful things we encountered on our trip. We loved every bit of it and laughed our heads off!! The amount of things we learned was extraordinary including learning lots of different metals, tricks and skills. In Chew to the Poo we had lots of fun going on a journey from our mouth to our big intestine and we learned the consequences we learnt about lots of things. Also in Colourful Chemistry and many a revolting thing. We encountered the elephants which when mixed together the consequences were fun and entertaining. We encountered the elephants toothpaste, volcanic eruption, how to melt iron and Halloween mixture. Beautiful colours were aroused in Colourful Chemistry and there were lots of gasps and WOWS!! But to top of the chemistry, we were amazed by the weird but wonderful fire flies!! Anyway, we all rated it a 5 star visit, and definitely a one to remember! Thank you very much again."



CREATURE FEATURES: ANIMAL-IN-TUITION

KEY STAGE: 2/3

DURATION: 45 MINUTE WORKSHOP

DAYS: WEDNESDAY/THURSDAY/FRIDAY

MAXIMUM NUMBERS: 45



Meet and learn about a wide range of interesting and unusual creatures. Pupils will have the opportunity to meet the Good, the Bad and the Ugly including reptiles, amphibians, mammals and those wonderful creepy crawlies amongst others.

**COME EXPLORE THE FASCINATING WORLD OF ANIMALS.
WHY DO SNAKES STARE? WHAT'S SO SPECIAL ABOUT
A GECKO'S TAIL?**



AIRE VALLEY SCHOOL
Has the event lived up to expectations:

'yes and much more – the whole organisation has been great, from the directions, to student ambassadors to the workshops.' What elements would you change, if any? 'At the moment I can't think of anything its been fantastic.'



BASF KIDS' LAB - BASF

KEY STAGE: 2/3

DURATION: 45 MINUTE WORKSHOP

DAYS: WEDNESDAY

MAXIMUM NUMBERS: 25

BASF Kids' Lab – Run by BASF volunteers, children aged 8-11 will have the opportunity to carry out experiments in a real laboratory. They can have great fun investigating science in their everyday lives and learn that chemicals are not only exciting, but also useful.

BASF offers two experiments linked to the national curriculum, Water Purification (can you make dirty water clean?) and Water Storage (can you test and identify a water storage system that keeps the water in the soil?).



BRADFORD ROCKS: BRADFORD MUSEUMS & GALLERIES

KEY STAGE: 2

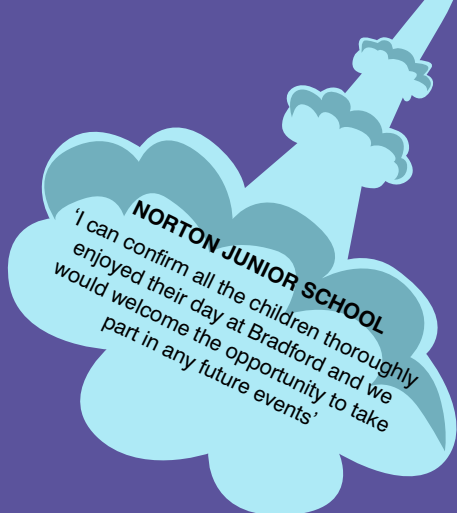
DURATION: 45 MINUTE WORKSHOP

DAYS: WEDNESDAY/THURSDAY/FRIDAY

MAXIMUM NUMBERS: 35

Students will explore rock samples and their use in everyday life together with learning archaeological techniques and procedures to uncover the different time periods that have helped to form Bradford.

Students will record, analyse and chart their findings.



CAN YOU BELIEVE YOUR EYES? COLOUR EXPERIENCE

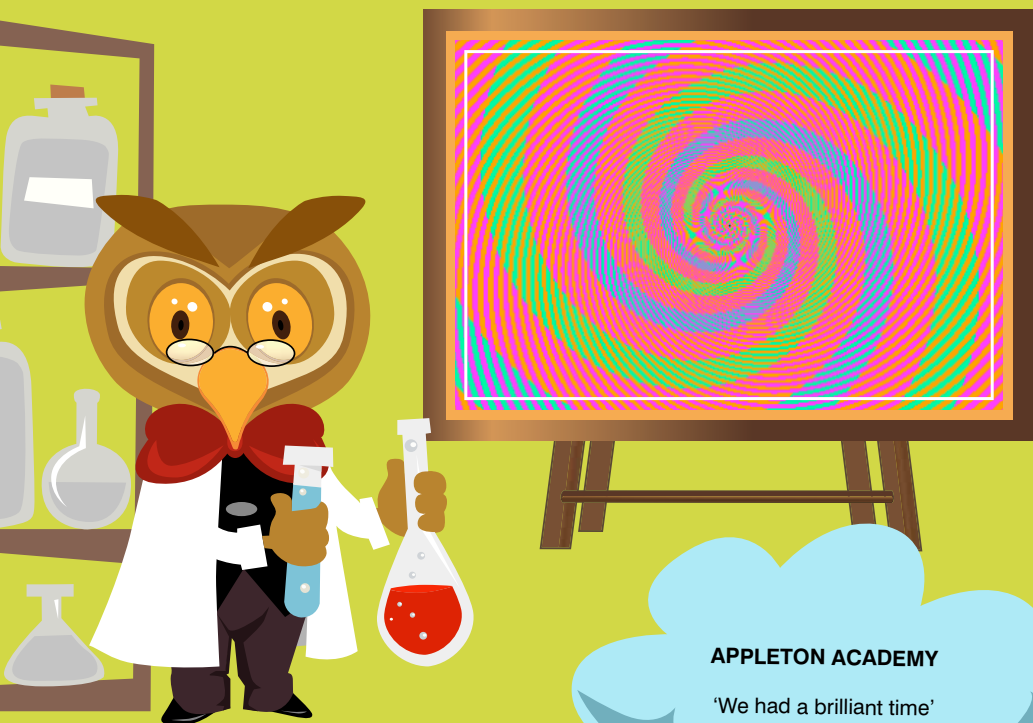
KEY STAGE: 2/3

DURATION: 45 MINUTE WORKSHOP

DAYS: WEDNESDAY/THURSDAY/FRIDAY

MAXIMUM NUMBERS: 30

Join us as we explore the world of visual perception. Do we really see what we think we see? We'll make the visible invisible and create colours out of nowhere in this interactive workshop.



APPLETON ACADEMY

'We had a brilliant time'

COLOUR DETECTIVE COLOUR EXPERIENCE

KEY STAGE: 2/3

DURATION: 45 MINUTE WORKSHOP

DAYS: WEDNESDAY/THURSDAY/FRIDAY

MAXIMUM NUMBERS: 30

Explore the world of colour. Follow the trail and solve the clues around our interactive gallery. Have you got what it takes to become a Colour Detective?



SCIENCE OF THE CIRCUS GARY THE MUSICAL CLOWN



KEY STAGE: 2
DURATION: 45 MINUTES
DAYS: FRIDAY
MAXIMUM NUMBERS: 150

Gary the Musical Clown provides his fun entertaining and educational show 'Science of the Circus'.

There is loads of audience participation as Gary demonstrates how 'Forces' make a difference in making things move, speed up, slow down, and alter shape in his Circus show.



BAILDON PRIMARY SCHOOL

'The exhibitions and activities were excellent and our guide was very useful too'

WHICH WAY IS UP INSPIRATIONAL SCIENCE THEATRE COMPANY

KEY STAGE: 2/3

DURATION: 45 MINUTES

DAYS: THURSDAY/FRIDAY

MAXIMUM NUMBERS: 100

A space show for the last century following the journey of Two BASA scientists in their bid to get to the moon one step at a time. Observe them in very basic training, monitor their problems with long distance low gravity travel and see if their rockets do actually get off the ground.



OUTER SPACE!!

VICTORIAN PHOTOGRAPHY TOUR THE NATIONAL MEDIA MUSEUM

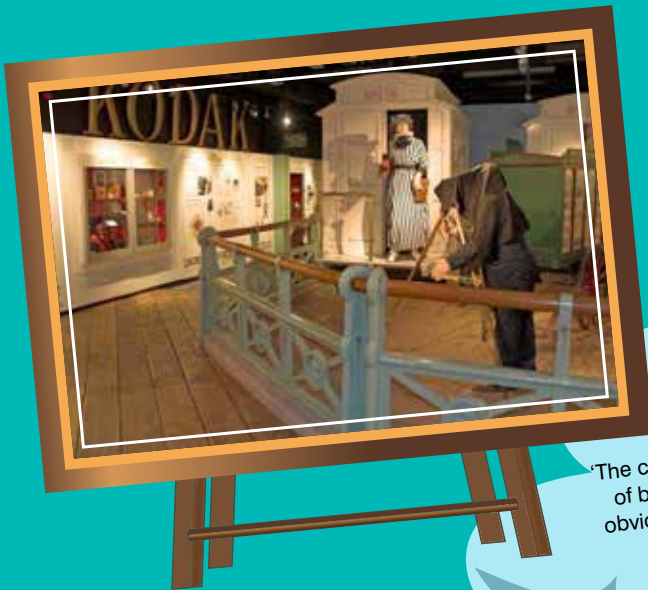
KEY STAGE: 2/3

DURATION: 45 MINUTES

DAYS: WEDNESDAY/THURSDAY

MAXIMUM NUMBERS: 20

Step back in time to find out about the earliest forms of photography and the scientific processes that were involved. Children will learn how without the Victorians many of today's developments in photographic technology would not have been possible.



**ST JOSEPHS
CATHOLIC COLLEGE**

'The children very much enjoyed the experience of being in a science environment' and they obviously learnt and discussed their activities.'

Asked the following questions:-

Has the event lived up to expectations – 'very much so – the kids would have wanted to do more sessions' and would you attend the event again - definitely.

LIGHT WRITING THE NATIONAL MEDIA MUSEUM

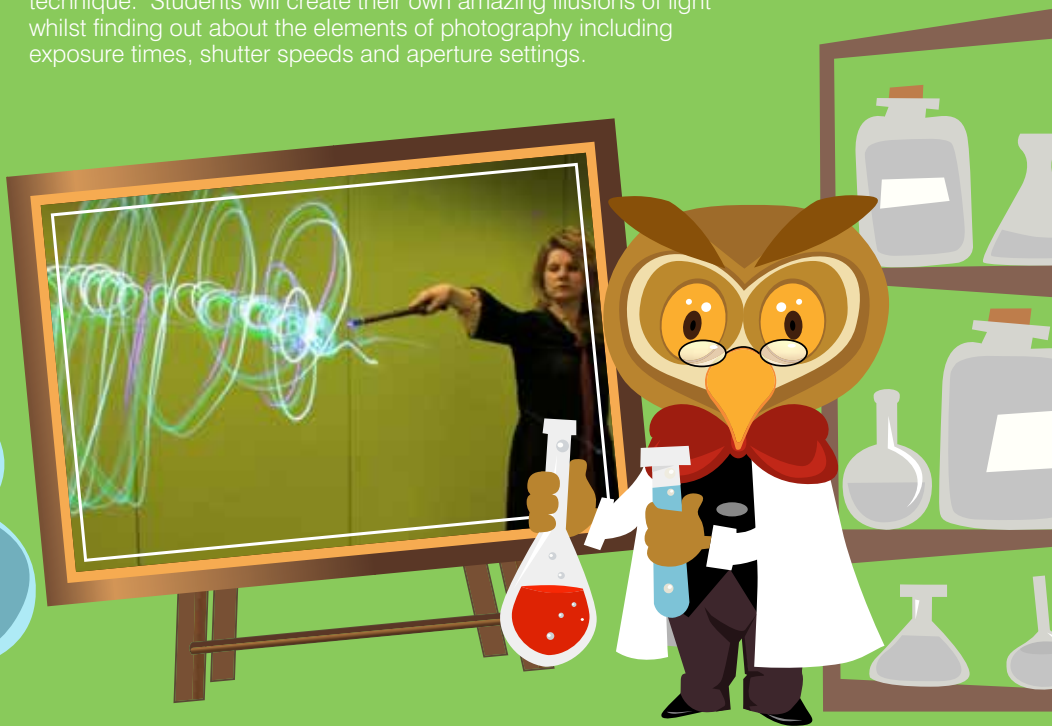
KEY STAGE: 2/3

DURATION: 45 MINUTES

DAYS: WEDNESDAY/FRIDAY

MAXIMUM NUMBERS: 30

Consider the applications and implications of science on technology in this hands-on session exploring this fascinating photographic technique. Students will create their own amazing illusions of light whilst finding out about the elements of photography including exposure times, shutter speeds and aperture settings.



DR STEVEN ROSSINGTON BOUNCING CUSTARD

KEY STAGE: 2/3

DURATION: 45 MINUTES

DAYS: WEDNESDAY

MAXIMUM NUMBERS: 25

How bouncy is your custard – roll your bouncing custard into a ball and drop it from a height of 30cm. How high does it bounce?



DR MATT PRICHARD SUPERHERO SCIENCE

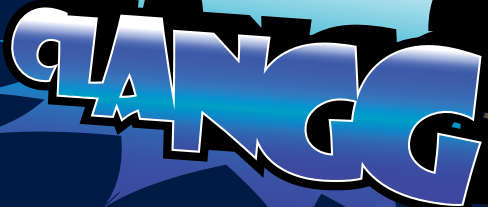
KEY STAGE: 2/3

DURATION: 45 MINUTES

DAYS: WEDNESDAY/THURSDAY/FRIDAY

MAXIMUM NUMBERS: 120

An interactive magic show exploring the science behind superhero powers. What is fact, what is fiction and what might be feasible in the future? Topics include: mind reading, telekinesis, photographic memory, invisibility, x-ray vision, levitation and super strength.



SCIENCE FICTION, SCIENCE FUTURE, SCIENCE FACT STEVE ALLMAN SHOW ME LEARNING

KEY STAGE: 2/3

DURATION: 45 MINUTES

DAYS: WEDNESDAY/THURSDAY/FRIDAY

MAXIMUM NUMBERS: 120

Join Steve Allman as he explores the realities of Science Fiction. Find out how to levitate, make objects invisible, glow in the dark and slow down time in this fast paced and fun show. Using plenty of experiments and demonstrations, Steve will show that science fact is often stranger than science fiction, whilst highlighting what the future of science may hold for us.



ROBOTS EXPLORE THE UNIVERSE THE STAR CENTRE KEIGHLEY

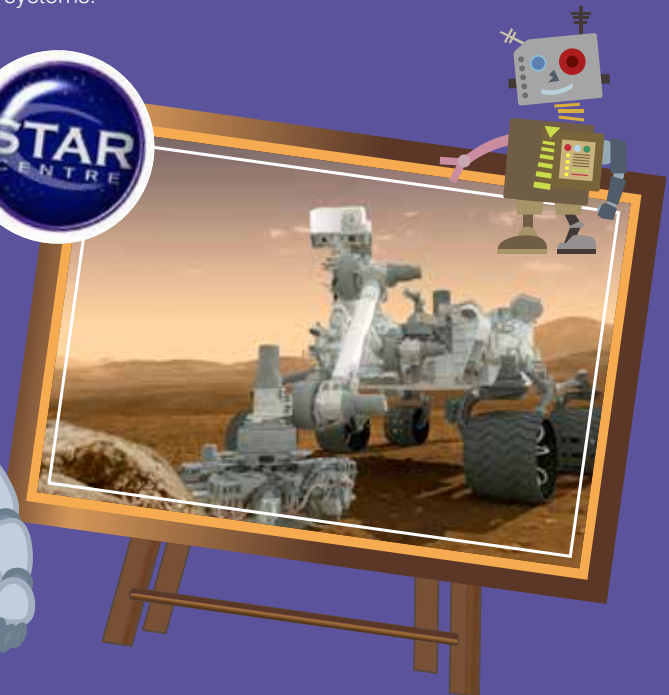
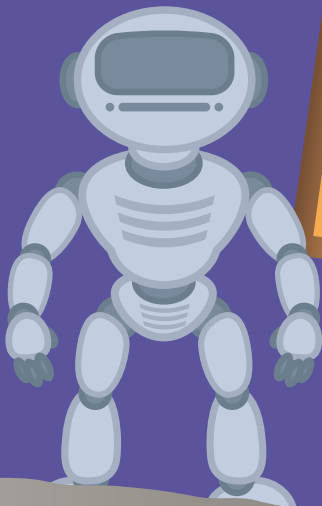
KEY STAGE: 2/3

DURATION: 45 MINUTES

DAYS: WEDNESDAY/THURSDAY/FRIDAY

MAXIMUM NUMBERS: 30

A workshop looking at all aspects of robotics, from the sci-fi robots, through domestic and industrial robotics and onto planetary exploration rovers, ending with a look into the future of robotics, humanoid robots and Artificial Intelligence. Projected display of images and information, instructor led discussion and the opportunity to drive a selection of planetary exploration rovers using various systems.



MATTHEW TOSH SCIENCE OF THE FIREWORK

KEY STAGE: 2/3

DURATION: 45 MINUTES

DAYS: WEDNESDAY/THURSDAY

MAXIMUM NUMBERS: 80

Experienced pyrotechnician and leading industry presenter, Matthew Tosh, will present a behind-scenes-look at professional firework displays. This is a fascinating lecture packed with science, elements of history, live demonstrations and unique display footage. From bangs and crackles, to colours and whistles, Matthew and his firing crew will take you on an exciting journey and show you just how science, technology and mathematics come together with precision engineering to entertain audiences at major events around the world. It's a lecture guaranteed to thrill and excite, but also to show STEM in action.





Fab Lab

Airedale



Fab Lab Airedale were responsible for creating the Blue Police Phone Box that was built to promote the Science Festival. Fab Lab Airedale are running a workshop to enable students to make their own miniature Police Phone Box using our Laser Cutter.



Key Stage: 2/3

Duration: 45 minutes

Day: Wednesday

Maximum Number: 10

SPECIAL THANKS TO ALL OUR SPONSORS





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PHOTOGRAPHY



this is chemistry

KEY STAGE 2-5 TIMETABLE OF EVENTS



Date	Activity Provider	Session 1 10.00-10.45	Session 2 11.00-11.45	Session 3 12.00-12.45	12.45- 13.45	Session 4 13.45-14.30
WEDNESDAY 17 TH OCTOBER 2012	Animals In-Tuition	Creature Features	Creature Features	Creature Features	LUNCH	Creature Features
	BASF	BASF Kids' Lab	BASF Kids' Lab	BASF Kids' Lab		BASF Kids' Lab
	Bradford Museums & Galleries	Bradford Rocks	Bradford Rocks	Bradford Rocks		Bradford Rocks
	Colour Experience	Can you believe your eyes?	Can you believe your eyes?	Can you believe your eyes?		Can you believe your eyes?
	Colour Experience	Colour Detective	Colour Detective	Colour Detective		Colour Detective
	The National Media Museum	Victorian Photography Tour	Victorian Photography Tour	Victorian Photography Tour		Victorian Photography Tour
	The National Media Museum	Light Writing	Light Writing	Light Writing		Light Writing
	Dr Steven Rossington	Bouncing Custard	Bouncing Custard	Bouncing Custard		Bouncing Custard
	Dr Matt Prichard – Science Magic Shows	Superhero Science	Superhero Science	Superhero Science		
	Steve Allman	Science Fiction, Science Fact, Science Future	Science Fiction, Science Fact, Science Future	Science Fiction, Science Fact, Science Future		Science Fiction, Science Fact, Science Future
	The STAR Centre Keighley	Robots Explore the Universe	Robots Explore the Universe	Robots Explore the Universe		Robots Explore the Universe
Matthew Tosh & Skyburst The Firework Company	The Science of Fireworks		The Science of Fireworks	The Science of Fireworks		



Date	Activity Provider	Session 1 10.00-10.45	Session 2 11.00-11.45	Session 3 12.00-12.45	12.45- 13.45	Session 4 13.45-14.30
THURSDAY 18 TH OCTOBER 2012	Animals In-Tuition	Creature Features	Creature Features	Creature Features	LUNCH	Creature Features
	Bradford Museums & Galleries	Bradford Rocks	Bradford Rocks	Bradford Rocks		Bradford Rocks
	Colour Experience	Can you believe your eyes?	Can you believe your eyes?	Can you believe your eyes?		Can you believe your eyes?
	Colour Experience	Colour Detective	Colour Detective	Colour Detective		Colour Detective
	Inspirational Science Theatre Company	Which Way is Up	Which Way is Up	Which Way is Up		Which Way is Up
	The National Media Museum	Victorian Photography Tour	Victorian Photography Tour	Victorian Photography Tour		Victorian Photography Tour
	Dr Matt Prichard – Science Magic Shows	Superhero Science	Superhero Science	Superhero Science		
	Steve Allman	Science Fiction, Science Fact, Science Future	Science Fiction, Science Fact, Science Future	Science Fiction, Science Fact, Science Future		Science Fiction, Science Fact, Science Future
	The STAR Centre Keighley	Robots Explore the Universe	Robots Explore the Universe	Robots Explore the Universe		Robots Explore the Universe
	Matthew Tosh & Skyburst The Firework Company	The Science of Fireworks		The Science of Fireworks		The Science of Fireworks

Date	Activity Provider	Session 1 10.00-10.45	Session 2 11.00-11.45	Session 3 12.00-12.45	12.45- 13.45	Session 4 13.45-14.30
FRIDAY 20TH OCTOBER 2012	Animals In-Tuition	Creature Features	Creature Features	Creature Features	LUNCH	Creature Features
	Bradford Museums & Galleries	Bradford Rocks	Bradford Rocks	Bradford Rocks		Bradford Rocks
	Colour Experience	Can you believe your eyes?	Can you believe your eyes?	Can you believe your eyes?		Can you believe your eyes?
	Colour Experience	Colour Detective	Colour Detective	Colour Detective		Colour Detective
	Gary the Musical Clown	The Science of the Circus-Forces	The Science of the Circus-Forces	The Science of the Circus-Forces		The Science of the Circus-Forces
	Inspirational Science Theatre Company	Which Way is Up	Which Way is Up	Which Way is Up		Which Way is Up
	The National Media Museum	Light Writing	Light Writing	Light Writing		Light Writing
	Dr Matt Prichard – Science Magic Shows	Superhero Science	Superhero Science	Superhero Science		
	Steve Allman	Science Fiction, Science Fact, Science Future	Science Fiction, Science Fact, Science Future	Science Fiction, Science Fact, Science Future		Science Fiction, Science Fact, Science Future
	The STAR Centre Keighley	Robots Explore the Universe	Robots Explore the Universe	Robots Explore the Universe		Robots Explore the Universe

Have you got the write stuff to win?

Read more about the Festival at telegraphandargus.co.uk

THE STORY

"This is going to be boring," said Leon hilariously.

Katie pointed him in the air. "Shut up. At least we're not in school, are we?"

Adrian, Bradford's big clipboard, "This just got up because he's missing. I said to me, I think I agree with him."

"They could together in the bright morning sunshine in the middle of the Mirror Pool in Bradford city centre scattered around were other groups of children from their school, their teacher Mrs. Brantworth wearing a bright yellow high-visibility jacket and telling them not to wander out of City Park. It was a field trip and they had come into the city centre by coach. Katie thought it was a bit.

"Give me that," she said, snatching the clipboard from Adrian. "This is charge of our group."

Leon glared at her. "Say who?"

"Say me," said Katie giving him one of the boys "The blue. And if you don't like it, you can always go and buy trousers."

"They all looked around at Adrian. He was the same age as them but twice the size, with a beard like a model of a woman. Katie had once seen on a documentary on the TV. He had grey-gangled two frightened boys from his group that was proceeding to rub his knuckles into their heads.

HAVE YOU GOT A TERRIFIC ENDING?

Something mysterious is happening in Bradford... and we need young budding writers in the district to help get to the bottom of it!

The theme of the festival is Science Fiction, Science Future, Science Fact, and to support this the team behind the event have established a strange site police box in Bradford's City Park.

But what is it all about? We've teamed up with the Bradford Science Festival for a writing competition aimed at two age groups - key stage one and key stage two. You can enter on your own or as part of a school project - ask your teacher if they want to take part as a class initiative.

All you have to do is read the following story, which we've started off but not finished, then tell us what happens next.

For eight to 11-year-olds you can have up

to 500 words. You don't have to write as much as that, but make sure you give us a good, mysterious story with a definite ending.

For 12 to 16-year-old writers, you have a total of 1,000 words if you need it.

Amber Ross from Space Connections, which is organising the Science Festival, said: "The site police box is based in the Mirror Pool and there are strange tracks around it. Where has it come from? Who is it for? And more importantly, what are the strange notes that can be heard coming from the board-up Odeon building?"

You have until September 26 to get your stories in to us, so don't rush. Think about your story, give it a title where the children investigate and an ending where everything is sorted out, with no loose ends.

Prizes and winners will be announced during the festival week.

So read our story, and get writing!



"No thanks," said Adrian. "You're in charge, Katie!"

"It was sunny morning and the Mirror Pool was full of water. They were surrounded by the rising walls of stone. Leon said, "It starts off with some and shows this up with water throughout the day I read about it in the paper."

"Fantastic," said Katie. "That's very rare to come people. Let's go over there."

It was a proper they were doing in rain about how people used the city centre at different times of the day. They set themselves up near one of the trees when water plumes of steam jetted and wobbled. The steam began to rise around their ankles, sending tracking one with another.

"It's raining, my friend," said Leon. "Katie frowned, this the steam supposed to be rising so high? She could hardly see the other groups now. It was like a big wet blanket up at the mirror pool."

"Leon," she said, "Adrian!" The steam clouds were so thick now the could see their own feet. The other two were searching for her hands but couldn't find the others. She was searching to get started. She walked steadily forward until she practically bumped into something. It was tall and solid. Not Adrian or Leon. Suddenly she began to melt away and there, floating out of the mist, was something she was sure hadn't been there before.

It was like a writhing but, but bright light. It had the words "write" written on it, but she was pretty sure it wasn't official. It looked out and started at the same time. Just like off the TV show.

"Katie" was suddenly locked for the said "Where have you been?"

"Look!" Adrian was pointing down at the floor. There were some tracks that looked like... well, looked like the very old feet.

"You read?"

"They looked up to see Leon. "I got lost and ended up right over there, past the old Odeon building."

"We passed 'Who's this?'"

"We don't know," said Katie. "It's a mystery."

"There's another mystery as well," said Leon bravely. "There are some very strange notes coming from the Odeon."

Katie looked at her two friends. "I think this calls for an investigation."

WHAT HAPPENS NEXT?

THAT'S UP TO YOU!



TIMELESS: Anthony Waddington and Gemma Harwood

Launch of week is out of the blue

City Park's mirror pool looked like something out of Doctor Who when a time travel machine suddenly similar to the Time Lord's appeared out of the morning mist.

The blue police box materialised as part of the build-up to the first Bradford Science Festival, expected to attract 1,000 visitors when it starts on Wednesday, October 17.

But yesterday morning a stream of people, including the Telegraph & Argus's Deputy Editor Saman Holmes and James Kilson, from the FBI LAB in Karghway, who created the site box, materialised from within it to give their views on science.

The interactive festival has been organised by Space Connections, a Bradford-based education team which encourages young people to

study engineering, science, technology or maths with a view to pursuing a career using related knowledge and skills.

Mr Kilson said: "I built the phone box for free and for the FBI LAB it was a great project to do."

"It shows what we can do," Yorkshire schools and colleges will attend science workshops and demonstrations given by experts from Bradford College, Bradford Council, BASF, Fabric, Participate Projects, the National Media Museum and the University of Bradford, during the October festival as well as science-promoting organisations from around the country.

Those appearing in the blue box will appear on a short film to be given to schools.

SCIENCE FICTION LITERARY CHALLENGE

Bradford Science Festival

For Young Authors

Name: _____

Age: _____

Address: _____

Postcode: _____

Parent/Carer/Teacher

Contact telephone: _____

email address: _____

I confirm that the submission is the work of the above named author

Signature: _____

Date: _____

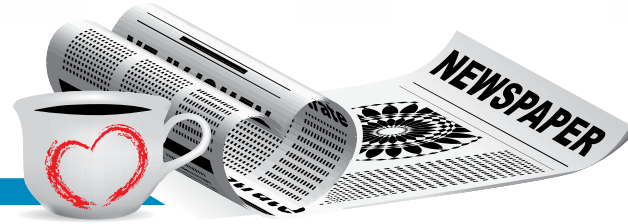
Please send your completed entry to the Sci-Fi Literary Challenge, Telegraph & Argus, Hall Ings, Bradford, BD1 1AB

Note: All entries must be accompanied by a completed entry form. No photographs allowed.

THE WRITING COMPETITION RULES

- Read our story and decide how it ends. Write up to 500 words if you're aged 8-11, up to 1,000 if you're 12-16, telling us what you think happens.
- If you can type your entry on a computer and have it printed out, that would be great. Please make sure your name is on every piece of paper in case it gets separated.
- Entries must be in by September 28 2012, when our entries mail will be with us.
- No late entries can be accepted.
- Either post to us or drop them off in person: Sci-Fi Literary Challenge, Telegraph & Argus, Hall Ings, Bradford, BD1 1AB.
- Each entry must be accompanied by an entry form as printed in today's T&A, with your full name, age and address.
- You MUST get a parent, carer or teacher to fill in a contact telephone number and e-mail and to sign saying

it's all your own work. We're sorry, but we can't return any of the entries, so make sure you have a copy yourself if you want to keep it. Entries will remain the property of the T&A for us to possibly use in relation to this competition. By entering, you agree to take part in publicity for the competition, and winners may be asked to have their photographs taken and appear in the T&A and associated internet sites.



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THE NATIONAL MEDIA MUSEUM IMAX CINEMA

PLEASE NOTE: To book the following activities please call the National Media Museum on 0844 856 3799 For school groups of 10 or more tickets are £3.50 per pupil; accompanying adults £1; essential carers free, if booked and paid for not less than 14 days in advance.



HUBBLE 3D

KEY STAGE: 2/3

DURATION: 10.30-11.10 AM

DAYS: WEDNESDAY/THURSDAY/FRIDAY

MAXIMUM NUMBERS: 232



Explore distant galaxies and the mysteries of the universe on this mission to repair the Hubble Space Telescope. Using incredible 3D technology, accompany seven space-walking astronauts as they attempt some of the most difficult and important tasks in NASA's history. (Cert U).



FILM NATIONAL
MEDIA TELEVISION
RADIO MUSEUM WEB
PHOTOGRAPHY

THE NATIONAL MEDIA MUSEUM TO THE ARCTIC

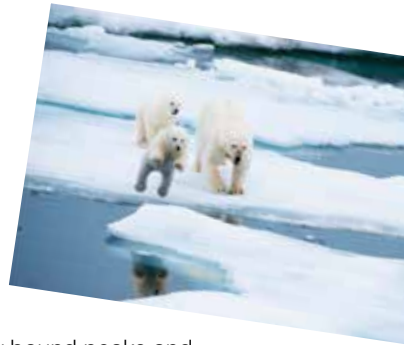
KEY STAGE: 2/3

DURATION: 11.50-12.30PMW

DAYS: WEDNESDAY/THURSDAY/FRIDAY

MAXIMUM NUMBERS: 232

Take an extraordinary journey into the lives of a mother polar bear and her seven-month old cubs as they navigate the changing Arctic wilderness they call home. Swim alongside the bears and discover a world beneath the ices where corals thrive. Gaze across hundreds of miles of snow bound peaks and floating ice in the Arctic Ocean. (cert Advisory PG).



Bradford
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Festival

17th - 19th
October 2012



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