TECHFEST

Promoting Science, Technology, Engineering and Mathematics

Scottish Charity No SC010349

EARLY YEARS WORKSHOPS 2025-2026

For enquiries, please contact:

Jenny Taylor, **Operations Manager**

E: jennytaylor@techfest.org.uk

© TECHFEST 2025

THANK YOU TO OUR SPONSORS, WHO MAKE EARLY YEARS OUTREACH POSSIBLE

WE WOULD LIKE TO THANK OUR SPONSORS AND SUPPORTERS*

JOINT PRINCIPAL SPONSORS

SPONSORS

STRATEGIC PARTNER

SUPPORTED BY

© TECHFEST 2025

Booking Information: If you would like to book one of our workshops, please contact us:
E: jennytaylor@techfest.org.uk

Maximum capacity for workshops: 33 pupils – please note there is no cost for staff.

Fee: £76 per core workshop (min 2 to be booked) + mileage cost of £15 per day visit.

Due to the high cost of living we have had to take the hard decision to apply mileage costs to all our core workshops. To make it fair to all schools across the Aberdeen and Aberdeenshire area we have averaged out the cost to £15 and will place this on all bookings from 01 April 2023.

For schools outwith Aberdeen and Aberdeenshire, mileage is charged at 45p per mile and is calculated from TechFest offices (Butchart Centre, University of Aberdeen, University Road, Aberdeen, AB24 3UT).

© TECHFEST 2025

CONTENTS

WORKSHOP	PAGE
CREST - BE SEEN, BE SAFE	5
THE HUNGRY CATERPILLAR	6
TEN TERRIBLE DINOSAURS	7
THE HOUSE THAT ZAC BUILT	8
CREST - CONFUSING CANS	9
THE SLEEPY HEDGEHOG	10
TECHFEST TALES	11
TERRIFIC TEETH	12

© TECHFEST 2025

CREST's "BE SEEN BE SAFE"

Key Concepts

In this workshop the children will hear about Cosmic and Gem visiting their Aunt Stella and the dangerous turn of events. The children will investigate how Cosmic and Gem could be seen and be safe in their everyday lives. The children will get the opportunity to design the ideal outfit to get them to and from nursery safely

Age Range:	Age 3-6
Running Time:	45 minutes/1 hour
CfE Links	SCN 0-15a, 0-20a TCH 0-04b, 0-04c MTH 0-16a, 0-20a, 0-20b HWB 0-16a, 0-17a, 0-18a
Workshop Requirements:	• Clear space for children to sit • Tables for activities

THE HUNGRY CATERPILLAR

Key Concepts

There are many educational themes throughout the book: counting, the days of the week, foods, and a butterfly's life stages. The book forms a staple of many educational activities in the early years class room, inspiring early literacy, numeracy, science, health and expressive arts activities but these are some ideas that can be enjoyed especially well with the book's very youngest readers and their families.

The caterpillar's diet is fictional rather than scientifically accurate but gives us some fantastic opportunities to look at the diet of the butterfly from a health perspective (thinking about our diets and food choices from a non-judgmental and supportive perspective). The book also introduces concepts of the butterfly life cycle where transformations take place from egg to caterpillar, to chrysalis to butterfly. We can start to explore this awe inspiring natural process together.

Age Range:	**Age 3-6**
Running Time:	**45 minutes/1 hour**
CfE Links	
Workshop Requirements:	• **Clear space for children to sit**

Ten Terrible Dinosaurs

Key Concepts

Ten Terrible Dinosaurs is an introductory counting book that focuses on subtraction from ten. Using mathematical language is essential for everyday life as children grow up. Helping children form connections to other types of maths, to their life and to the world around them is helps lay a foundation for children to enjoy and feel positive about maths. Stories that use mathematical language allow learners to have exposure to lots of new maths terms at once and see how they relate to real life.

For children who have already been introduced to numbers and counting, the story is an enjoyable way of relating new concepts to known concepts, subtraction in the case of this story. Young readers will be invested in the story and drawn in by the characters and the plot, making it a much more natural way to begin a discussion.

Age Range:	**Age 3-6**
Running Time:	**45 minutes/1 hour**
CfE Links	**LIT 0-01a / LIT 0-11a / LIT 0-20a**
Workshop Requirements:	• **Clear space for children to sit**

THE HOUSE THAT ZAC BUILT

Key Concepts

"The House That Zac Built" is a modern adaptation of the classic nursery rhyme "The House That Jack Built" by Scottish author and illustrator Alison Murray. The hero is a little boy called Zac who lives on a farm. Zac built a house from blocks and a fly buzzed past, disturbing the farm cat.The cat chased the fly and tipped over a jug of milk and woke the farm dog who was sleeping. The dog causes mayhem running through the farm covered in cream, the lambs escape and the cat ignores it all, still chasing the fly. Zac tidies up by soothing the dog, putting the lambs back in their field, milking the cow to replace the cream, rescuing the cat (stuck up a tree) and blowing away the fly. They all admire Zac's block house.

Age Range:	**Age 3-6**
Running Time:	**45 minutes/1 hour**
CfE Links	**LIT 0-01a / LIT 0-11a /LIT 0-20a / HWB 0-50a / HWB 1-50a / HWB 0-05a**
Workshop Requirements:	• **Clear space for children to sit**

CREST's "CONFUSING CANS"

Key Concepts

In this workshop the children will be introduced to Cosmic, Gem and Uncle Astro. Using a scientific experiment the children will work out what is inside unlabelled cans of food helping Uncle Astro to feed cosmic and Gem their favourite lunch. There will be an opportunity for the children to create their own labels to organise the cans of food to help Uncle Astro.

Age Range:	**Age 3-6**
Running Time:	**45 minutes/1 hour**
CfE Links	**SCN 0-04a, 0-07a, 0-15a** **TCH 0-04b, 0-04c, 0-10a** **MNU 0-11a, 0-16a, 0-20a, 0-20b** **HWB 0-14a 0-22a**
Workshop Requirements:	• **Clear space for children to sit** • **Tables for activities**

The Sleepy Hedgehog

Key Concepts

This story-based workshop uses a game, activities and poetry to learn about familiar wild animals, their tracks and homes. The hibernation of hedgehogs is the main thread in the storyline.

Age Range:	**Age 3-6**
Running Time:	**45 minutes**
CfE Links	**SCN 0-20a** **LIT 0-01a / LIT 0-11a / LIT 0-20a** **LIT 0-19a**
Workshop Requirements:	• **Tables arranged around the outside of the room in a generous U shape, with an open floor area in the centre where children can sit.**

TechFest
Aberdeen and North-East Scotland's Festival of Science, Technology, Engineering & Mathematics
www.techfest.org.uk/festival

TECHFEST TALES

Key Concepts

Snuggle down for science with some favourite bedtime stories. This creative and imaginative introduction into a range of STEM (Science, Technology, Engineering and Mathematics) topics is aimed to excite and enhance the students' experience of science and literacy with hand on experiments and demonstrations.

Age Range:	**Age 3-6**
Running Time:	**45 minutes**
CfE Links	**LIT 0-01c/ HWB 0-30a/ HWB 1-30a/ HWB 1-30b/ HWB 0-50a / HWB 1-50a / SCN 0-06a, SCN 1-06a / HWB 0-23a, SCN 0-03a, MTH 0-13a, HWB 0-50a**
Workshop Requirements:	• **Chairs for presenters and adults** • **Area for children to sit around presenter for introduction**

TechFest
Aberdeen and North-East Scotland's Festival of Science, Technology, Engineering & Mathematics
www.techfest.org.uk/festival

TechFest
Aberdeen and North-East Scotland's Festival of Science, Technology, Engineering & Mathematics
www.techfest.org.uk/festival

Terrific Teeth

Key Concepts

A fun and interactive experiment investigating the science behind a healthy smile. Children will help scientists at the "Bright Smile Toothpaste Company" make and test a new, top secret toothpaste recipe. Examination of ingredients and simple experiments encourage children to build their investigative skills and scientific understanding.

Age Range:	Age 3-6
Running Time:	45 minutes/1 hour
CfE Links	SCN 0-03a,0-07a, 0-15a TCH 0-14a MNU 0-02a, 0-10a, 0-20a HWB 0-15a, 0-33a LIT 0-04a, 0-19a EXA 0-14a SOC 0-15a
Workshop Requirements:	• Presenter chair and table • Chairs and tables for pupils to work at • Floor space

CREST AWARDS

THE CREST AWARDS SCHEME IS THE BRITISH SCIENCE ASSOCIATIONS FLAGSHIP PROGRAMME FOR YOUNG PEOPLE, PROVIDING SCIENCE ENRICHMENT ACTIVITIES TO INSPIRE AND ENGAGE 5 – 19 YEAR OLDS.

CREST AWARDS ARE NOW FREE IN SCOTLAND. PLEASE USE THE CODE T22ECHFEST56 TO ORDER YOUR CERTIFICATES AT NO COST, WHICH ALSO SUPPORTS TECHFEST.

It is the only nationally recognised accreditation scheme for project work in science, technology, engineering and mathematics (STEM) subjects.

In addition to giving young people the opportunity to undertake hands-on science, CREST Awards are designed to help develop skills that are transferrable to other subjects, further education and future employment.

To find out more about CREST Awards and to see how you can get involved visit the TechFest website:
www.techfest.org.uk/education/crest
or email:
kirstycranna@techfest.org.uk

TECHFEST digital

TechFest is your Regional CREST Support Organisation for Scotland..
TechFest.org.uk

To find out more information about CREST and how to register for awards follow the link below:
www.crestawards.org

TECHFEST
Promoting Science, Technology, Engineering and Mathematics
Scottish Charity No SC010349

TECHFEST PROGRAMMES

PRIMARY OUTREACH CATALOGUE

Delivering Science, Technology, Engineering and Mathematics workshops in line with the Curriculum for Excellence.

TechFest offers a variety of outreach workshops suitable for primary schools and early years. All the workshops are led by experienced presenters with a teaching or science background and provide an excellent opportunity for pupils to engage in enjoyable and challenging activities.

click here for more information: https://techfest.org.uk/education/ages-under-11/primary-outreach

TEACHER LED CATALOGUE

TechFest offers a variety of outreach workshops suitable for primary schools and early years.

We are also offering schools the chance to take part in on demand workshops which have no cost and can be done in your own time.

click here for more information: https://techfest.org.uk/education/ages-under-11/teacher-led-sessions

24 DAYS OF STEM

Our '24 Days of STEM' advent calendar offers exciting activities designed for all interests and skill levels. Participants will develop science, design, and coding skills while enjoying festive surprises.

For more information and to sign up visit: https://www.techfest.org.uk/news-events/upcoming-events-new/event/332-24-days-of-stem

© TECHFEST 2025