

TECHFEST

Promoting Science, Technology, Engineering and Mathematics

Scottish Charity No SC010349

EARLY YEARS WORKSHOPS 2024

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CONTENTS

WORKSHOP	PAGE
GLORIOUS GERMS	5
TERRIFIC TEETH	6
CREATIVE CATERPILLARS	7
WILD ABOUT MATHS	8
CREST - Confusing Cans	9
CREST - Be Seen Be Safe	10
SLEEPY HEDGEHOG	11
TECHFEST TALES	12

TECHFEST

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



GLORIOUS GERMS

KEY CONCEPTS

Learn about the transmission of germs and how to protect your body. Using blue light technology we will let the children visually inspect their technique. Children will be using their imagination to create their own germs which they can take home. As a nursery group we will provide a fun experiment that the children can keep observing in the coming weeks.

AGE RANGE:	AGE 3-6
RUNNING TIME:	45 MINUTES/1 HOUR
CFE LINKS	SCN 0-20A, 1-13A TCH 0-04C, 0-09A, 0-11A HWB 0-15A, 0-33A
WORKSHOP REQUIREMENTS:	<ul style="list-style-type: none">• PRESENTER CHAIR AND TABLE• CHAIRS AND TABLES FOR PUPILS TO WORK AT• FLOOR SPACE

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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:	<ul style="list-style-type: none">• PRESENTER CHAIR AND TABLE• CHAIRS AND TABLES FOR PUPILS TO WORK AT• FLOOR SPACE

CREATIVE CATERPILLARS



KEY CONCEPTS

In this workshop the children will gain an understanding of the lifecycle of a caterpillar, based on the famous children's book 'The Very Hungry Caterpillar' by Eric Carle. The children will categorise the food that the hungry caterpillar ate in our story as well as other foods the children are familiar with in their everyday diet. The children will be getting their hands dirty creating wild seed mini gardens. Using the presenters scientific knowledge we will show the children how to grow a butterfly using basic household items. . We will be introducing symmetry using the butterfly as a reference in a fun and creative way.

AGE RANGE:	AGE 3-6
RUNNING TIME:	45 MINUTES/1 HOUR
CFE LINKS	MNU 0-01A, 0-02A, 0-19A, 0-16A SCN 0-01A, TCH 0-04A HWB 0-11A, 0-21A LIT 0-01B, 0-01C EXA 0-14A
WORKSHOP REQUIREMENTS:	TABLES AND CHAIRS (APPROXIMATELY 6-10 CHILDREN AROUND EACH TABLE).



WILD ABOUT MATHS

KEY CONCEPTS

We will start this workshop by reading "How many legs?" by Kes Gray and Jim Field. This will get the children thinking about nature and how to differentiate animals by the number of legs. In an interactive game of higher or lower the children will be helping us get the number line back in order. The children will have the opportunity to create their very own number bond bird. To finish, we will provide the natural resources to create nature crowns for the children to take home.

AGE RANGE:	AGE 3-6
RUNNING TIME:	45 MINUTES/1 HOUR
CFE LINKS	MNU 0-02A, 0-03A, 0-16A, 0-20A, 0-20B LIT 0-01C, 0-04A, 0-10A
WORKSHOP REQUIREMENTS:	<ul style="list-style-type: none">• CLEAR SPACE FOR CHILDREN TO SIT• TABLES FOR ACTIVITIES



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:	<ul style="list-style-type: none">• CLEAR SPACE FOR CHILDREN TO SIT• TABLES FOR ACTIVITIES

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:	<ul style="list-style-type: none">• CLEAR SPACE FOR CHILDREN TO SIT• TABLES FOR ACTIVITIES

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:	EY - P1
RUNNING TIME:	45 MINS
CFE LINKS	SCN 0-20A LIT 0-01A / LIT 0-11A / LIT 0-20A LIT 0-19A
WORKSHOP REQUIREMENTS:	ROOM 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 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:	EY - P1
RUNNING TIME:	45 MINS
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



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.

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.techfestsetpoint.org.uk/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