



# TECHFEST

Aberdeen and North-East Scotland's  
Festival of Science, Technology,  
Engineering & Mathematics  
[www.techfest.org.uk/festival](http://www.techfest.org.uk/festival)



# 2024 SCHOOLS SCIENCE FESTIVAL

Monday 27 May – Friday 31 May 2024

Robert Gordon University,  
Garthdee Campus, AB10 7GJ



JOINT PRINCIPAL SPONSORS



[WWW.TECHFEST.ORG.UK](http://WWW.TECHFEST.ORG.UK)

Scottish Charity No. SC010349

# **TECHFEST PRIMARY SCHOOLS PROGRAMME 2024**



As Joint Principal Sponsors of TechFest 2024, bp and Shell are delighted to once again pledge our support to Aberdeen and the North-East of Scotland's premier annual festival of Science, Technology, Engineering and Maths (STEM). TechFest aims to build young people's knowledge of these key subjects and inspire them to become the next generation of engineers, scientists, technologists and mathematicians.

This year, TechFest has developed a diverse and entertaining programme to complement the classroom work delivered through the Curriculum for Excellence and we are confident that the young people will find the festival experience both educational and fun.

We look forward to another successful event which we hope will encourage pupils to consider studying these important subjects from an early age.

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**Doris Reiter**  
**Senior Vice President**  
**bp North Sea**

**Simon Roddy**  
**Senior Vice President Upstream**  
**Shell U.K. Limited**

# WELCOME TO

## TECHFEST SCHOOLS SCIENCE PROGRAMME 2024

**T**echFest is delighted to present its Schools Science Festival Programme for 2024 - an exciting line-up of Science, Technology, Engineering and Mathematics (STEM) workshops and shows, all chosen with the capacities, principles, experiences and outcomes of Curriculum for Excellence in mind.

### TECHFEST

Aberdeen and North-East Scotland's  
Festival of Science, Technology,  
Engineering & Mathematics  
[www.techfest.org.uk/festival](http://www.techfest.org.uk/festival)



We are also delighted that events like our schools' programme can help your school embed 'Developing Young Workforce' into your school curriculum, inspiring and informing our future workforce. Thanks to our extensive sponsorship and the time volunteers give to working with the children during their time at TechFest we hope that your school can make the most of this chance to build employer links and create lasting relationships with our university partners. It is also never too early to help our young people raise awareness of all the jobs there are that match their interests and increase their confidence.

The cost per primary pupil this year will be £2.00 which represents great value for money. Each pupil will participate in three sessions. Opportunities are available across the Nursery - P7 age range, with a variety of topics. Groups will be a maximum of 33 children. We will invoice you after the event and there is no deposit required, however if you are using the Council payment system please can you provide a PO number in advance.

Each Early Years group is invited to attend up to three sessions, however, if you choose to come for just one or two sessions prices will be adjusted accordingly. Children must be over 3 years of age. Groups will be a maximum of 20 children.

Demand for festival places is always high and we reach capacity very quickly. Applications are dealt with on a 'first come, first served' basis, so please complete and return your application form without delay.

We welcome school staff contacting us to discuss requirements or plans for a visit as our aim is to ensure the day is as enjoyable and runs as smoothly as possible

# PLANNING YOUR VISIT



Please note that each class will be allocated three workshops per visit. While we cannot guarantee that you will receive all of your choices of workshop, depending on your preference for dates and times, we will put together the best programme ensuring you receive a variety of STEM workshops, based on CfE Experiences and Outcomes tailored for the age and stage of your pupils.

Please give as much information at time of booking as possible e.g. class teacher, access requirements. This makes booking management a lot easier during your visit.

If you would like to discuss any of this further, please do not hesitate to contact Jenny Taylor: 07817 745250 or email: [jennytaylor@techfest.org.uk](mailto:jennytaylor@techfest.org.uk)

**DISCLOSURE** - TechFest supports disclosure for all people who work with schools, however at no time should volunteers be alone with students. All schools must write their own risk assessment and ensure that members of the teaching staff are present throughout all workshops and during your visit to TechFest.

**RISK ASSESSMENT** - while we can provide Risk Assessments for the workshop activities if required, schools are responsible for travel to and from the venue and must risk assess this accordingly.

**FIRST AID PROVISION** - TechFest has First Aiders onsite to support your school First Aiders and we will ask you to confirm that you are happy for us to assist your school if the need arises.

**PHOTOGRAPHS** - Photographers will be on hand to take photographs during the event. Please bring written Photographic Permission for your class. We will also invite schools to send us their photographs for our website.

**CATERING** - There are limited catering facilities at RGU so please make sure that you and your pupils bring a packed lunch with you. There will be tea/coffee/water available for teaching staff and adult helpers only. If you require a drink, please use travel cups with lids or a water bottle with a lid. Please be aware that hot drinks are not allowed in the workshop areas.

**DISCLAIMER** - All details in this programme are correct at the time of publishing. TechFest reserves the right to alter the programme information and events without prior notice if required. Apologies for any inconvenience.

# AT A GLANCE



## EY, P1 - P2

GIANT MATHS

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## EY, P1 - P3

ROXY'S ROCK POOL ADVENTURE - SHOW  
K'NEX UNDER THE SEA  
PONDS AND PEOPLE

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## P1 - P3

WILD ABOUT MATHS  
TECHFEST DOME – NIGHT AND DAY  
ISAACS BIG IDEA  
ENERGISING THE TRANSITION - ENERGY EXPLORERS  
BRILLIANT BUTTERFLIES

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## P1 - P7

WONDERFUL WIND  
THE WONDERFUL RAINFOREST  
BODY VISION EXHIBITS  
BE A CHEMIST FOR THE DAY

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## P2 - P4

FORCES OF NATURE  
POWER UP!

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## P2 - P7

YOU ARE HERE

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## P3 - P5

ENERGISING THE TRANSITION - ELECTROMAGNETISM

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## P4 - P7

DON'T PANIC  
UNDER PRESSURE  
MATHS AROUND THE WORLD  
FLASH BANG KAPOW!  
K'NEX LIGHTHOUSES  
ENERGISING THE TRANSITION - BRIGHT IDEAS  
COMMOTION IN THE OCEAN  
POLLUTION INVESTIGATORS  
STEM THROUGH THE AGES  
TECHFEST DOME – THE NIGHT SKY  
MOVIE MAGIC  
COUNTRYSIDE CLASSROOM ON WHEELS  
MEGA MATHS  
DISCOVERING THE COAST  
PLANT PROTECTORS

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## P5 - P7

UNDERWATER EXPLORERS  
GET BRIDGED  
CLASSROOM CLASH  
EUREKA MOMENT  
MOONSHOT CHALLENGE

## HOW TO BOOK

Scan the qr code to view the  
booking form



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## EY, P1 - P2

### GIANT MATHS

Legend has it that the Irish giant Finn McCool built the Giant's Causeway to get across the Irish Sea to face his rival, the Scottish giant Benandonner. The workshop uses this tale as the basis for activities on shapes and patterns, introducing children to hexagons.

**PRESENTED BY:** TECHFEST      **RUNNING TIME:** 45 minutes  
**AGE RANGE:** EY, P1- P2      **CFE LINKS:** Maths



## EY, P1 - P3

### ROXY'S ROCK POOL ADVENTURE

Join Roxy on an adventure looking for the Creepy Crab in a rock pool she is helped by her magical friend CC and meets the Boring Barnacles, the Laughing Limpets, the Prickly Prawns, Starry the Sea Star, and Aggie Anemone.

**PRESENTED BY:** TECHFEST  
**SPONSORED BY:** bp and Shell  
**AGE RANGE:** EY, P1- P3  
**RUNNING TIME:** 45 minutes  
**CFE LINKS:** Science, Emotional Health and Wellbeing

### K'NEX UNDER THE SEA

Discover the unique challenges of exploring under the sea, find out how we breathe, what we wear to keep warm and how to move around in the subsea world. What will you discover beneath the waves?

**PRESENTED BY:** TECHFEST  
**SPONSORED BY:** Subsea7  
**AGE RANGE:** EY, P1- P3  
**RUNNING TIME:** 45 minutes  
**CFE LINKS:** Science, Technology, Engineering

### PONDS AND PEOPLE



Your pupils will take on the part of pond creatures, trying to survive pollution that might cause problems! However, if things go badly for their pond, it will be up to your pupils to decide how to heal the pond so that all the animals can return.

**PRESENTED BY:** ABERDEEN CITY COUNCIL  
COUNTRYSIDE RANGER SERVICE

**AGE RANGE:** EY, P1- P3  
**RUNNING TIME:** 45 minutes  
**CFE LINKS:** Science

## P1 - P3

### WILD ABOUT MATHS

Take a walk on the wild side with TechFest as pupils undertake puzzles, challenges and problem-solving activities inspired by the natural world. In this hands-on maths workshop small teams of pupils work through a series of tasks designed to challenge and build confidence.

**PRESENTED BY:** TECHFEST  
**SPONSORED BY:** Equinor  
**AGE RANGE:** P1- P3  
**RUNNING TIME:** 45 minutes  
**CFE LINKS:** Maths, Science





## P1 - P3

### THE TECHFEST DOME – DAY AND NIGHT

What makes day and night? Where does the Sun go at night? This show demonstrates how the Sun moves across the sky during the day in both summer and winter. Find the North Star, the Plough, Orion, Betelgeuse, and Sirius in the night sky and relate them to the Greek constellations.

**PRESENTED BY:** TECHFEST

**AGE RANGE:** P1- P3

**CFE LINKS:** Maths, Science

**SPONSORED BY:** Apache

**RUNNING TIME:** 45 minutes



### ISAAC'S BIG IDEA

Pupils will hear the story of Isaac Newton and learn how forces interact with objects. Through storytelling and a range of fun activities students will learn about different forces, and the role they play in everyday life.

**PRESENTED BY:** TECHFEST

**SUPPORTED BY:** Waldorf

**AGE RANGE:** P1- P3

**RUNNING TIME:** 45 minutes

**CFE LINKS:** Science

### ENERGISING THE TRANSITION: ENERGY EXPLORERS

Welcome Energy Explorers! In this fun and interactive workshop learn about different types of energy and the renewable energy sources helping to power our world!

In this energy inspired workshop, pupils get the opportunity to explore the science behind renewable energy and take part in hands-on activities. Join us on this exciting renewable energy journey and discover more about the world around you!

**PRESENTED BY:** TECHFEST

**SPONSORED BY:** Apache

**AGE RANGE:** P1- P3

**RUNNING TIME:** 45 minutes

**CFE LINKS:** Science, Engineering, Renewable Energy



### BRILLIANT BUTTERFLIES!



Join the Duthie Park Rangers and dive into the beautiful world of butterflies! Take a closer look at their lifecycle and make a craft to take home! Learn what pollination is and why it's important and test your butterfly knowledge through interactive activities! You may even get to see some special guests crawling or fluttering!

**PRESENTED BY:** DUTHIE PARK RANGER SERVICE

**RUNNING TIME:** 60 minutes

**AGE RANGE:** P1- P3

**CFE LINKS:** Science

### WONDERFUL WIND

This workshop introduces the basic concept of using wind to generate electricity, using poetry to set the context.

Who Has Seen the Wind? By Christina Rossetti

Who has seen the wind? Neither I nor you:

But when the leaves hang trembling, The wind is passing through.

Who has seen the wind? Neither you nor I:

But when the trees bow down their heads, The wind is passing by.

**PRESENTED BY:** TECHFEST

**SPONSORED BY:** Stromar

**AGE RANGE:** P1- P3

**RUNNING TIME:** 45 minutes

**CFE LINKS:** Science, Literacy



## P1 - P7

### THE WONDERFUL RAINFOREST



Rainforests only cover 2 percent of our earth's surface, yet house over 50 percent of all living creatures and plant life on our planet.

Using real life animal demonstrations, we will travel to different countries meeting some amazing animals that live in rainforests around the world. Get up close to real rainforest animals in this workshop. You'll learn what makes our rainforests so important to not only our planet, but to the animals who call the rainforest home

**PRESENTED BY:** THE CRITTER KEEPER

**AGE RANGE:** P1- P7

**RUNNING TIME:** 45/60 minutes

**CFE LINKS:** Science

### BODY VISION EXHIBIT WORKSHOPS



Participants will get hands-on with a range of engaging anatomy themed exhibits. They will address topics like cardiovascular fitness, body composition and the effects of lifestyle choices like smoking.

**PRESENTED BY:** GLASGOW SCIENCE CENTRE

**AGE RANGE:** P1- P7

**RUNNING TIME:** 45 minutes

**CFE LINKS:** Biological Systems

### BE A CHEMIST FOR A DAY!



Discover chemical reactions inspired by culinary creations or everyday substances from around the home, with hands on experiments in physics and chemistry. From acids and alkalis to fizzes and bangs!

**PRESENTED BY:** UOA MARINE DIVERSITY CENTRE

**AGE RANGE:** P1- P7

**RUNNING TIME:** 45 minutes

**CFE LINKS:** Science

MONDAY,  
WEDNESDAY &  
FRIDAY ONLY

## P2 - P7

### YOU ARE HERE

YOU  
ARE  
HERE

Come with us on a dramatic journey to the very edge of our solar system and back.

In real-time we'll be seeing the boundaries of human exploration and following in the footsteps of some very special space missions. Our beginner-friendly space-cruise is a chance for some cosmic perspective in this topsy-turvy time and also a handy wee reminder that: You. Are. Here.

There will be time to chat with Dynamic Earth's astronomers after the show too - we hope you'll join us for the ride!

**PRESENTED BY:** DYNAMIC EARTH

**AGE RANGE:** P2- P7

**RUNNING TIME:** 45 minutes

**CFE LINKS:** Science, Space

## P2 - P4

### POWER UP!



An electrifying live science show exploring everyday energy: where we find it, how we use it, and the ways we store it. Find out about the sources of energy in nature and how we harness energy in our homes.

**PRESENTED BY:** GLASGOW SCIENCE CENTRE

**AGE RANGE:** P2- P4

**RUNNING TIME:** 30 minutes

**CFE LINKS:** Topical Science, Planet Earth, Forces, electricity and waves

### FORCES OF NATURE: ENERGY AND THE ENVIRONMENT

Join us to look at different types of weather and how they are associated with the Earth's climate zones. Find out about Greenhouse Gases and the effect they have on our climate.

**PRESENTED BY:** TECHFEST

**SPONSORED BY:** Vattenfall

**AGE RANGE:** P2- P4

**RUNNING TIME:** 45 minutes

**CFE LINKS:** Science

BOOK  
NOW







## P3- P5

### ENERGISING THE TRANSITION: ELECTROMAGNETISM!

Understanding the properties of magnets is central to the energy industry and to many aspects of our daily lives. In this hands-on investigative workshop, working in small teams, pupils discover the properties and uses of magnets and magnetism and are introduced to the amazing phenomenon of electromagnetism.

**PRESENTED BY:** TECHFEST

**AGE RANGE:** P3- P5

**SPONSORED BY:** CNOOC International

**RUNNING TIME:** 60 minutes

**CFE LINKS:** Science



## P4- P7

### MATHS AROUND THE WORLD

A fun, hands-on maths workshop designed to challenge and build confidence. A variety of puzzles, representing different countries, are set out around the room. In small teams, pupils travel around each puzzle with a customised passport logging the countries they have visited. Help and encouragement is at hand and solutions checked.

**PRESENTED BY:** TECHFEST

**SPONSORED BY:** Equinor

**AGE RANGE:** P3- P5

**RUNNING TIME:** 45 minutes

**CFE LINKS:** Science, Space

### ENERGISING THE TRANSITION: BRIGHT IDEAS

Look around you. Are the lights on? Is your computer running? Or the TV playing? All of these things require energy! We use energy every day to power our world. In this workshop, delve into the exciting future of energy and take part in hands-on, interactive experiments to learn about different energy sources, and the trade-offs associated with each. Which energy source will you choose to power your future?

**PRESENTED BY:** TECHFEST

**SPONSORED BY:** CNOOC International

**AGE RANGE:** P4- P7

**RUNNING TIME:** 60 minutes

**CFE LINKS:** Science, Engineering, Renewable Energy

### FLASH, BANG, KAPOW! ROBERT GORDON UNIVERSITY ABERDEEN

Are you the next generation of scientists? Come along and have fun with us in a workshop that captures the chemistry behind fireworks, learn how to make a bang in the kitchen and try our signature blend of ice cream.

**PRESENTED & SUPPORTED BY:** ROBERT GORDON UNIVERSITY SCHOOL OF PHARMACY AND LIFE SCIENCES

**AGE RANGE:** P4- P7

**RUNNING TIME:** 45 minutes

**CFE LINKS:** Science

WEDNESDAY -  
FRIDAY ONLY

### COMMOTION IN THE OCEAN



Deep beneath the waves, the sea is a surprisingly noisy place. In the dark, murky depths many animals rely on sound rather than vision to explore their watery world. This interactive show blends biology with physics as we explore how sounds travels through the ocean, which marine animals have become acoustic specialists, and the impacts human activities may be having on the ocean soundscape.

**PRESENTED BY:** SRUC

**AGE RANGE:** P4- P7

**RUNNING TIME:** 45 minutes

**CFE LINKS:** Science, Environment

TUESDAY,  
WEDNESDAY,  
THURSDAY  
ONLY



## P4- P7

### THE TECHFEST DOME – DAY AND NIGHT

A tour of the night sky includes the North Star, the Plough and Orion. Watch how the stars move at night and discover how we get different constellations with the changing seasons. Listen to the amazing story of Perseus and Andromeda and find out which planets you can see in the sky tonight.

**PRESENTED BY:** TECHFEST

**AGE RANGE:** P4- P7

**CFE LINKS:** Science

**SPONSORED BY:** Apache

**RUNNING TIME:** 45 minutes



### POLLUTION INVESTIGATORS

As part of the environmental pollution monitoring team you have been called to a fish kill incident. Using scientific tests, you must uncover what happened and put a plan in place to prevent future incidents.

**PRESENTED BY:** TECHFEST

**SPONSORED BY:** Fugro

**AGE RANGE:** P4- P7

**RUNNING TIME:** 60 minutes

**CFE LINKS:** Science, Numeracy and Maths



### STEM THROUGH THE AGES

History is all around us, but have you ever considered how science, technology, engineering and maths have impacted on the ancient world? Investigate the challenges that civilisations overcame to make their environments safer. Discover how they were able to navigate incredible distances successfully and learn how to do it yourself.

**PRESENTED BY:** TECHFEST

**AGE RANGE:** P4- P7

**RUNNING TIME:** 60 minutes

**CFE LINKS:**

Science, Technology, Engineering, Maths, Other - History.



### K'NEX LIGHTHOUSES

Shine a light of creativity to tackle a historic engineering challenge. Investigate problems associated with the construction of lighthouses. Work in teams and use your engineering skills to develop a lighthouse prototype.

**PRESENTED BY:** TECHFEST

**RUNNING TIME:** 60 minutes

**AGE RANGE:** P4- P7

**CFE LINKS:** Engineering, Other- history

### DON'T PANIC!



In days where it seems like Earth is lurching from one disaster to the next, anxieties around the future of our planet mount and it seems like there isn't much we can do. We'll explore in our planetarium how there's actually a lot of cause for optimism as long as we remember - Don't Panic!

**PRESENTED BY:** DYNAMIC EARTH

**AGE RANGE:** P4- P7

**RUNNING TIME:** 45 minutes

**CFE LINKS:** Science, Environment

DON'T  
PANIC

### UNDER PRESSURE



Come with us as we take a deep dive into the global ocean; we'll explore dark, hidden ecosystems and see the collective efforts of hundreds of marine scientists and engineers, striving to learn all we can about these enigmatic worlds. We'll also ponder on our ability to shape the future of this global ocean we all depend on.

**PRESENTED BY:** DYNAMIC EARTH

**AGE RANGE:** P4- P7

**RUNNING TIME:** 45 minutes

**CFE LINKS:** Science

### MEGA MATHS

This maths workshop focuses on 3d shapes and their properties, employing hands-on, challenge-based, active learning which provides opportunities for pupils to develop their teamwork skills, resilience and creativity. Pupils will work in teams to build 3D shapes and their nets.

**PRESENTED BY:** TECHFEST

**AGE RANGE:** P4- P7

**RUNNING TIME:** 60 minutes

**CFE LINKS:** Maths



## P4- P7

### MOVIE MAGIC: STEP INTO THE WORLD OF VISUAL EFFECTS



Join us at TechFest's Schools Festival for 'Movie Magic: Step into the World of Visual Effects', an exhilarating and educational event presented by RGU's School of Computing. This unique experience, tailored for primary and secondary school students, delves into the captivating world of cinematic visual effects.

Discover the art and science behind iconic movie effects as our experts from RGU reveal the technology that transforms imagination into on-screen reality. Engage in an interactive session where you'll step in front of a green screen and witness yourself being seamlessly integrated into famous film scenes - an exciting blend of learning and fun.

Take home a memorable snapshot of your cinematic venture, and gain insights into digital creativity and technology. This event is an invitation to explore the wonders of movie-making and to ignite a passion for STEM in a stimulating environment.

Embark on this educational adventure with us, where the magic of movies meets the marvels of technology!

**PRESENTED BY:** RGU SCHOOL OF COMPUTING

**AGE RANGE:** P4- P7

**RUNNING TIME:** 45 minutes

**CFE LINKS:** Computing, Technology

TUESDAY &  
WEDNESDAY  
ONLY

### COUNTRYSIDE CLASSROOM ON WHEELS

Join us in our Countryside Classroom on Wheels (CCOW) where we give an overview of Scottish Agriculture and look at our livestock.

We will also be looking at Super Cereal Crops and the STEM behind our food. Looking at everything from growing, caring for, harvesting and then the uses of the crops and why we grow certain crops in Scotland.



**PRESENTED BY:** ROYAL NORTHERN COUNTRYSIDE INITIATIVE

**AGE RANGE:** P4- P7

**RUNNING TIME:** 60 minutes

**CFE LINKS:** Science, Environment, Agriculture

### DISCOVERING THE COAST



Look at the East Grampian Coast, its wildlife and the threats that they are facing including marine litter and plastics.

**PRESENTED BY:** EAST GRAMPIAN COASTAL PARTNERSHIP

**AGE RANGE:** P4- P7

**RUNNING TIME:** 60 minutes

**CFE LINKS:** Science, Environment



### PLANT PROTECTORS



Royal Botanic Garden Edinburgh

Uncover the surprising link between cutting your grass and bird nests, explore how a career in rocket science can benefit plants and discover how storytelling can help plants. Join us for an interactive workshop to learn all this through creativity, investigation and VR exploration. Discover the different skills and technologies that scientists, horticulturists, artists, and others are using to work together to protect nature.

**PRESENTED BY:** THE ROYAL BOTANIC GARDEN



EDINBURGH AND ST ANDREWS BOTANIC GARDEN, SUPPORTED BY THE NATIONAL LOTTERY HERITAGE FUND, WITH THANKS TO NATIONAL LOTTERY PLAYERS

**AGE RANGE:** P4- P7

**RUNNING TIME:** 60 minutes

**CFE LINKS:** Science, Soc, Lit, Eng, HWB

TUESDAY -  
FRIDAY  
ONLY

### WONDERFUL WIND

The workshop explains the fundamentals of wind energy, using high quality equipment and 'playlets' to enhance learning. Introducing concept that energy cannot be created or destroyed, only changed from one form to another.

**PRESENTED BY:** TECHFEST

**SPONSORED BY:** Stomar

**AGE RANGE:** P4- P7

**RUNNING TIME:** 45 minutes

**CFE LINKS:** Science





## P5- P7

### CLASSROOM CLASH



The world of work to TechFest with fun games and quizzes for attendees to play. This activity will introduce industry sectors and future careers that are important to Scotland's economic growth.

**PRESENTED BY:** MY WORLD OF WORK LIVE

**RUNNING TIME:** 45 minutes

**AGE RANGE:** P5- P7

**CFE LINKS:** Science, Technology

TUESDAY -  
FRIDAY  
ONLY

### EUREKA MOMENT!

Pupils will learn about the Archimedes Principle, and then apply their knowledge to designing a boat and testing how many marbles it can hold. This workshop contains lots of experimenting with different materials and an introduction to concepts such as Archimedes Principle and density.

**PRESENTED BY:** TECHFEST

**AGE RANGE:** P5- P7

**RUNNING TIME:** 60 minutes

**CFE LINKS:** Science

### UNDERWATER EXPLORERS

The oceans are deeper than the highest mountains. Find out about the machines that explore the oceans and the science and engineering that makes them work. Can you complete the mission to 'fly' an ROV (Remotely Operated Vehicle) underwater robot?

**PRESENTED & BY:** ROBERT GORDON UNIVERSITY  
**SUPPORTED BY:** SCHOOL OF ENGINEERING

**AGE RANGE:** P5- P7

**RUNNING TIME:** 60 minutes

**CFE LINKS:** Technologies, Engineering

### GET BRIDGED!!



Building minds, bridging the future.

Learn to work as a team to build a real bridge you can walk across. Get to understand what civil engineers do and how bridges work (and get a badge 'I've been Bridged'!!)

**PRESENTED BY:** ABERDEEN ASSOCIATION  
OF CIVIL ENGINEERS

**AGE RANGE:** P5- P7

**RUNNING TIME:** 60 minutes

**CFE LINKS:** Science, Technology, Maths



### MOONSHOT CHALLENGE

NASA's exploration of space has entered an exciting new phase with the designing and building of the Artemis rocket which will take people to the Moon. Scotland's space administration has been asked to design accommodation facilities that can be used on the Moon. Local school pupils are being recruited to help design and make the shelters for astronauts and scientists

**PRESENTED BY:** TECHFEST

**SPONSORED BY:** APOLLO, CNOOC INT, EQUINOR, TAQA

**AGE RANGE:** P5- P7

**RUNNING TIME:** 60 minutes

**CFE LINKS:** Science



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NOW!



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# ACTIVITY WEEKEND 2024

1-2  
JUNE  
2024



"So impressed with the whole event. We all learned something today from my grandson aged 2 to me at 66!!" - AW guest

"Brilliant! Thought we'd pop along for an hour to see what it was like, 5 hours later and we had to drag the kids away (likewise ourselves). So much variety, lots of fun learning. Really great day. Thank you." - AW guest

"It was a lovely venue for it. All the staff and volunteers were so friendly and helpful. TechFest is doing a great thing, thank you to you and your sponsors and the associated organisations for putting this on for us." - AW guest

UPCOMING  
EVENTS

SCHOOLS SCIENCE FESTIVAL 2024 | 13





THE **CREST AWARDS** SCHEME IS THE BRITISH SCIENCE ASSOCIATION'S 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](http://www.techfestsetpoint.org.uk/crest) or email: [kirstycranna@techfest.org.uk](mailto:kirstycranna@techfest.org.uk)

**TECHFEST**  
*digital*

TechFest is your Regional CREST Support Organisation for Scotland.

[TechFest.org.uk](http://TechFest.org.uk)

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

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

# THANK YOU!

JOINT PRINCIPAL SPONSORS



To all of our contributors who helped make the TechFest 2024 Schools Festival Programme



Royal Botanic Garden Edinburgh



## GET IN TOUCH WITH US...



Butchart Centre, University of Aberdeen  
University Road, Aberdeen AB24 3UT  
E. [enquiries@techfest.org.uk](mailto:enquiries@techfest.org.uk)

[techfest.org.uk](http://techfest.org.uk)



Scottish Charity No. SC010349

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