#### **TECHFEST** Aberdeen and North-East Scotland's Eastival of Science, Technology

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Festival of Science, Technology, Engineering & Mathematics www.techfest.org.uk/festival

## 2025 SCHOOLS SCIENCE FESTIVAL

## Monday 26 May – Friday 30 May 2025

## Robert Gordon University, Garthdee Campus, AB10 7GJ



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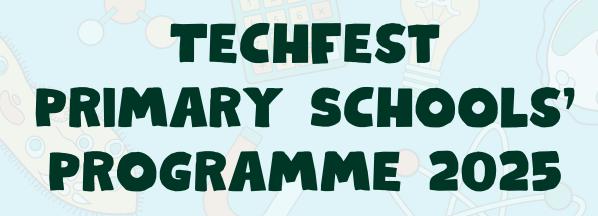
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WWW.TECHFEST.ORG.UK

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As Joint Principal Sponsors of TechFest 2025, Shell and bp 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.

Doris Reiter Senior Vice President bp North Sea Simon Roddy Senior Vice President Upstream Shell U.K. Limited

## TECHFEST SCHOOLS SCIENCE PROGRAMME 2025

TechFest is delighted to present its Schools Science Festival Programme for 2025 - 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.

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Aberdeen and North-East Scotland's Festival of Science, Technology, Engineering & Mathematics 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

DISCLOSURE TechFest supports disclosure for all people who work with schools, however at no time should volunteers be alone with students. All must write their schools 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 and must risk this venue assess accordingly.

**FIRST AID PROVISION** – TechFest has First Aiders on site 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.

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.

PLANNING

YOUR VISIT

The Sir Ian Wood Building

ECHFEST

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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



**EY, P1 - P3** K'NEX UNDER THE SEA PONDS AND PEOPLE CREATIVE CATERPILLARS PUFFIN DETECTIVES

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## P1 - P3

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

## P1 - P7

WONDERFUL WIND THE WONDERFUL RAINFOREST FITLAB EXHIBITS ACTIVE EARTH

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## P2- P4

FORCES OF NATURE THERE'S PLASTIC IN MY SEA! SCOTTISH ROOTS

#### **P3 - P5** ENERGISING THE TRANSITION - ELECTROMAGNETISM

### P4 - P7

MATHS AROUND THE WORLD CIRCUITS & ELECTRONICS TECHFEST DOME - THE NIGHT SKY K'NEX LIGHTHOUSES DISCOVERING THE COAST WONDERFUL WIND FLASH BANG KAPOW! HAPPY HYDROGEN COUNTRYSIDE CLASSROOM ON WHEELS EXPLORING CONSERVATION WITH RZSS

## P5 - P7

EUREKA MOMENT MOONSHOT CHALLENGE NATURE DETECTIVES PLANT PROTECTORS CLIMATE CHANGE AND OUR OCEANS LEGO © RENEWABLES CLIMATE CHANGE DNA DETECTIVES SMART CUTEBOT OBSTACLE ADVENTURE

## P6 - P7

PLAY THE BODY GAME ENERGISING THE TRANSITION - BRIGHT IDEAS OPERATION DISASTER RELIEF



## Scan the qr code to view the booking form



JOINT PRINCIPAL SPONSORS





## <u>EY, P1 - P3</u>

## K'NEX UNDER The sea with Subsea 7

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?

#### 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.

AGE RANGE: EY, P1- P3

CFE LINKS: science

creative way.

PRESENTED BY: TECHFEST

**RUNNING TIME: 45 minutes** 

CFE LINKS: Science, HWB, Maths

AGE RANGE: EY, P1- P3

**RUNNING TIME: 45 minutes** 

PRESENTED BY: ABERDEEN CITY COUNCIL

**CREATIVE CATERPILLARS** 

In this workshop, the children will gain an

understanding of the life cycle of a caterpillar, based on the famous children's book 'The Very Hungry Caterpillar' by Eric

Carle. The children will categorise the food

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

min gardens. We will be introducing symmetry using the butterfly in a fun and

COUNTRYSIDE RANGER SERVICE



#### **PUFFIN DETECTIVES: A CLIMATE MYSTERY**

In this interactive storytelling-style workshop, learners will investigate the effects of climate change on Scottish wildlife via the investigations of two young 'Pufflings' living on the Isle of May. They will discover more about these iconic birds and their way of life, and through a series of fun activities, they will find out how variations in weather affect butterfly populations, seal pups and ultimately the food which the puffins depend on.

PRESENTED BY: DYNAMIC EARTH

AGE RANGE: EY,P1- P3 RUNNING TIME: 45 minutes



CFE LINKS: Science, Literacy, Social Studies

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



SCHOOLS SCIENCE FESTIVAL 2025

#### **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 the play in everyday life.

#### PRESENTED BY: TECHFEST AGE RANGE: P1- P3 **RUNNING TIME: 45 minutes CFE LINKS: Science**

#### 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 **SPONSORED BY:** Apache AGE RANGE: P1- P3 **RUNNING TIME: 45 minutes** CFE LINKS: Maths, Science



#### ENERGISING THE TRANSITION: ENERGY EXPLORERS

Welcome Energy Explorers! In this fun and interactive PRESENTED BY: TECHFEST 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 CFE LINKS: Science, Engineering, energy journey and discover more about the world around vou!

SPONSORED BY: Apache AGE RANGE: P1- P3 RUNNING TIME: 45 minutes

**Renewable Energy** 



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



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SCHOOLS SCIENCE FESTIVAL 2025 |



MACDUF

AQUARIUM

MONDAY TO

WEDNESDAY

ONLY

## <u> P1 - P7</u>

#### 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

#### FITLAB EXHIBIT WORKSHOP



THURSDAY

ONLY

Your pupils can explore their endurance, power, agility, speed and coordination through a range of zoned exhibits. Participants can compete head-to-head in a brainwave battle, listen to their own heart on our heartbeat drum and test their skills on the balance board during this hands-on, interactive experience.

PRESENTED BY: GLASGOW SCIENCE CENTRE

AGE RANGE: P1- P7

RUNNING TIME: 45 minutes CFE LINKS: Biological Systems

#### ACTIVE EARTH

Take a journey through our active earth exploring tectonics, earthquakes and volcanoes with multiple hands-on activities.

PRESENTED BY: RACHEL BRACKENRIDGE AND DAVE CORNWELL - UNIVERSITY OF ABERDEEN, SCHOOL OF GEOSCIENCES TUESDAY AND

AGE RANGE: P1- P7 RUNNING TIME: 45 minutes

8

CFE LINKS: Geography, Social Studies

## <u> P2 - P7</u>

#### THERE'S PLASTIC IN MY SEA!

Plastic is everywhere and plays an integral part in our daily lives. This programme explores how much we rely on plastics, its impact to the marine environment and the importance of refusing, reducing, reusing and recycling plastics. Through interactive demos, games and storytelling pupils will explore the impacts of plastic on marine life and what we can all do to help stop single use plastics.

PRESENTED BY: MACDUFF MARINE AQUARIUM

AGE RANGE: P2- P7

RUNNING TIME: 45 minutes

CFE LINKS: Science

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## <u>P2 - P4</u> Scottish roots



Royal Botanic Garden Edinburgh

Join the Royal Botanic Garden Edinburgh as we take a journey into a world of plants, myths and legends. Listen to stories to learn about some of our amazing and unique Scottish plants, their traditional uses and the different names they have around our country. Get hands on with activities which get scientific cogs turning and creative ideas flowing and contribute to our collaborative art project with pupils from around Scotland.

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: P2- P4

**RUNNING TIME: 45 minutes** 

CFE LINKS: Science, Maths, Literacy, Social Studies

#### 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



## <u> P3- P5</u>

#### **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

**RUNNING TIME: 60 minutes** 

SPONSORED BY: CNOOC International CFE LINKS: Science

AGE RANGE: P3- P5

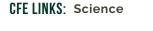
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## <u> P4- P7</u>

#### 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



#### THE TECHFEST DOME - NIGHT SKY

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 SPONSORED BY: Apache RUNNING TIME: P4- P7 AGE RANGE: 45 minutes CFE LINKS: Science, Space



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#### **CIRCUITS & ELECTRONICS**

Spark your curiosity and discover how electricity works and how to stay safe in this workshop where pupils will create simple circuits and learn about the uses of different components.

PRESENTED BY: ABERDEEN SCIENCE CENTRE

AGE RANGE: P4- P7 RUNNING TIME: 60 minutes CFE LINKS: Science

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#### THURSDAY - FRIDAY ONLY AND WEDNESDAY - TBC

EXPLORING CONSERVATION WITH RZSS

Join an expert from the Royal Zoological Society of Scotland as we share stories of local and global conservation; learning about our amazing animals, the issues they face and the actions we can take as organisations and individuals to help them. This interdisciplinary session involves a series of fun games, activities including exploring artefacts.

PRESENTED BY: ROYAL ZOOLOGICAL SOCIETY SCOTLAND AGE RANGE: P4- P7 RUNNING TIME: 60 minutes

CFE LINKS: Science, Social Studies, HWB, Literacy, Maths



## P4- P7

#### **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

AGE RANGE: P4- P7

PRESENTED BY: TECHFEST **RUNNING TIME: 60 minutes** 

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

#### **DISCOVERING THE COAST**

A 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



#### 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 AGE RANGE: P4- P7

**RUNNING TIME: 45 minutes** CFE LINKS: Science

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

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 AND SUPPOERTED BY: ROBERT GORDON UNIVERSITY SCHOOL OF PHARMACY, APPLIED SCIENCES AND PUBLIC HEALTH

AGE RANGE: P4- P7

**RUNNING TIME: 45 minutes** 

**CFE LINKS: Science** 10 ........

#### LAND AND WATER AUGMENTED REALITY **UNIVERSITY OF** SANDBOX (SARNDBOX) ABERDEEN

A hands-on exhibit combining a real sandbox, and virtual topography and water created using a closed loop of a Microsoft Kinect 3D camera, powerful simulation and visualization software, and a data projector. The system teaches geographic, geologic, and hydrologic concepts such as how to read a topography map, the meaning of contour lines, watersheds, catchment areas, levees, etc.

PRESENTED BY: DAVID HARO, UNIVERSITY OF ABERDEEN SCHOOL OF GEOSCIENCES

AGE RANGE: P4- P7 **RUNNING TIME: 45 minutes** 

**CFE LINKS:** Geography, Social Studies

#### HAPPY HYDROGEN

Join us in this interactive workshop looking at the properties of gases and applications of electricity introducing pupils to some of the language and concepts involved in the utilisation of hydrogen as part of the energy mix.

PRESENTED BY: TECHFEST SPONSORED BY: BP, ABERDEEN HYDROGEN ENERGY LTD AGE RANGE: P4- P7 **RUNNING TIME: 60 minutes CFE LINKS: Science** 

THURSDAY & FRIDAY ONLY



ONE DAY ONLY - TB

## <u> P4- P7</u>

#### 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: PRESENTED BY ROYAL NORTHERN

COUNTRYSIDE INITIATIVE

AGE RANGE: P4- P7

RUNNING TIME: 60 minutes

CFE LINKS: Science, Environment, Agriculture

## <u> P5- P7</u>

## CLIMATE CHANGE AND OUR



MONDAY -

WEDNESDAY

ONLY

THURSDAY &

FRIDAY ONLY

Climate change is affecting our planet in many ways and, as it is a blue planet, the ocean is being impacted on a massive scale. Climate change affects the ocean in three ways, through increased temperature, decreased oxygen levels and increased acidity. These themes will be explored with your class though interactive demos, activities and role play.

PRESENTED BY: MACDUFF MARINE AQUARIUM

AGE RANGE: P5- P7

RUNNING TIME: 60 minutes

CFE LINKS: Science

#### **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

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RUNNING TIME: 60 minutes CFE LINKS: Science

## <u> P5- P7</u>

#### **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 benefits 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 and meet some of the amazing people with interesting careers!

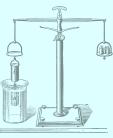
PRESENTED BY: ROYAL BOTANIC GARDEN EDINBURGH AND ST ANDREWS BOTANIC GARDEN, SUPPORTED BY THE NATIONAL LOTTERY HERITAGE FUND, WITH THANKS TO NATIONAL LOTTERY PLAYERS. AGE RANGE: P5- P7

RUNNING TIME:	60 minutes	
CFE LINKS:	Science, Soc, I	Lit, Eng, HWB

#### **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



#### **NATURE DETECTIVES**

Meet the Duthie Park Rangers and become nature detectives! Can you identify the trees in your local park? Do you know which animals walk on their nails? Come and have a look at some animal sings, test your tree ID skills, and learn why tracking is important!

PRESENTED BY: DUTHIE PARK RANGERS

RUNNING TIME: 60 minutes CFE LINKS: Science, Environment

AGE RANGE: P5- P7



## P5- P7

#### LEGO RENEWABLES

LEGO © Renewables will give your pupils a taste of what it's like to work as an engineer in the renewables industry.

Build a wind turbine to get your pupils cogs turning. During the activity, young people will act as engineers and learn about renewable energy. Then, with help, the class will design and build a functional LEGO © wind turbine.

Once everyone's happy with their turbine, we'll test them to see how much energy they produce.

PRESENTED BY: MY WORLD OF WORK LIVE

AGE RANGE: P5- P7

**CFE LINKS:** Science, Technology **RUNNING TIME: 45 minutes** 



#### DNA DETECTIVES

Dive into the wonderful world of genetics! Learn about DNA, the marvellous molecule that contains the instructions for all life on earth! You can even try your hand at translating some DNA sequences to find the hidden meaning. Find out what your DNA says about you!

#### PRESENTED BY: TECHFEST

AGE RANGE: P5- P7

TUE & WED

ONLY

12

**CFE LINKS: Science** 

**RUNNING TIME: 60 minutes** 

#### SMART CUTEBOT OBSTACLE ADVENTURE

Are you passionate about computing, engineering, and technology? Do you want to know a bit about smart technologies? Then join us for the Smart Cutebot Obstacle Adventure! In this exciting thrill racer session, you will explore world of computing and engineering, navigating through an obstacle course challenge with your own robot. This hands-on workshop is designed to spark curiosity, foster teamwork, and develop essential skills in a fun and engaging way. Get ready to innovate, create, and conquer the obstacle course!

PRESENTED BY: RGU SCHOOL OF COMPUTING, ENGINEERING & TECHNOLOGY ROBERT GORDON AGE RANGE: P5- P7 CFE LINKS: Computing, Engineering, Technology **RUNNING TIME: 60 minutes** 

## **CLIMATE CHANGE**





During this workshop, your pupils will investigate how the UK has been affected by climate change over recent decades and the implications of this for the future. Using a combination of discussion and activities, pupils will investigate the greenhouse effect and identify sources and sinks of greenhouse gases. They will finish off by playing 'Science or Fiction', an interactive game exploring some of the solutions being proposed to combat climate change.

#### PRESENTED BY: DYNAMIC EARTH

AGE RANGE: P5- P7

CFE LINKS: Science, Technology, Literacy, Social **Studies** 

**RUNNING TIME: 45 minutes** 

PLAY THE BODY GAME

## P6 - P7



The Body Game aims to demystify and provide clarity on how biochemical processes occur in the body. The game tasks players working in small groups to explore the human body through missions and challenges linked to key biochemical processes. At the same time, players must deal with external factors based on real-life medical scenarios such as disease and other human biochemistry and physiology modifiers. Therefore, they gain an understanding of the processes covered in the game, all of which link to human metabolism.

PRESENTED BY: INSTITUTE OF EDUCATION IN HEALTHCARE AND MEDICAL SCIENCES, UNIVERSITY **OF ABERDEEN** 

AGE RANGE: P6- P7

**RUNNING TIME: 60 minutes** 

CFE LINKS: Science- Body Systems, Topical Science and Physical Wellbeing.



## <u> P6 -P7</u>

#### **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: P6-P7 CFE LINKS: Science, Technology RUNNING TIME: 45 minutes

#### OPERATION DISASTER RELIEF

STEM skills are vital when the British Army deploys around the world and are never more crucial than when disaster strikes! In this activity, pupils will join the Army's Engineers, Medics and Logisticians in deploying to a remote part of the world which has been hit by a destructive earthquake. Learning how to build, programme and operate their LEGO<sup>™</sup> Mindstorm robot pupils will use their robot to undertake a series of engineering and logistical challenges in order to achieve their mission and deliver life-saving humanitarian aid to the local people.

PRESENTED BY: ROYAL ENGINEERS ARMY STEM YOUTH ENGAGEMENT TEAM NCO (SCOTLAND)

AGE RANGE: P6-P7 RUNNING TIME: 60 minutes CFE LINKS: Maths, Technology, Engineering



#### DISCLAIMER

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SCHOOLS SCIENCE FESTIVAL 2025 | 12

# ACTIVITY WEEKEND 2025



## 31ST MAY-1ST JUNE 2025

"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



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: <u>www.techfestsetpoint.org.uk/crest</u> or email: kirstycranna@techfest.org.uk



TechFest is your Regional CREST Support Organisation for Scotland.. <u>TechFest.org.uk</u> To find out more information about CREST and how to register for awards follow the link below: <u>www.crestawards.org</u>



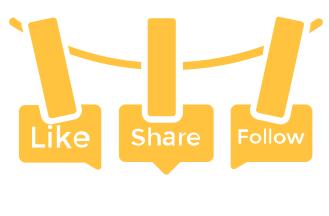


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