



## 2012/2013 SCHOOLS PROGRAMME

FOUNDATION  
PHASE



Llywodraeth Cymru  
Welsh Government

# TECHNIQUEST PROVIDES A UNIQUE EXPERIENCE...

**...in supporting teachers in their teaching of numeracy and literacy, through a broad and dynamic science and maths programme in its Centre in Cardiff Bay, and through Outreach at your school.**

All Foundation Phase programmes cover the seven areas of learning, providing a balance between presenter-directed learning and child-initiated activities. The programmes are presented with the help of Delyth, a cheeky and inquisitive young dragon, who is on hand to answer questions and inspire pupils in science and mathematics.

At Techniquest, each programme consists of a Science Theatre show, time on the exhibition floor amongst the 120 hands-on exhibits and practical activities in Delyth's Den, plus pre- and post-visit materials, thereby offering teachers a complete package of activities to support their teaching.

Each lively presentation in the Science Theatre lasts approximately 25 minutes, after which pupils explore the exhibition floor. Here they are guided by their own curiosity, and engage with a variety of interactive exhibits that encourage them to experiment. Pupils will have time to explore skills and ideas introduced in the Science Theatre through the additional activities in Delyth's Den.

Teachers are provided with digital cameras to record their pupils activities on the exhibition floor. Images are then downloaded onto a memory stick - which includes resource materials - which teachers can take back to their classrooms to enable pupils to reflect on their visit and develop their ideas back at school.

School visits are so well organised that teachers can simply focus on the learning experience; upon arrival, Techniquest staff explain the logistics of the visit to make sure the day runs smoothly.

Areas can be reserved for pupils to have packed lunches, and Café Quest serves drinks, snacks and hot food on-site.

## BOOKING YOUR VISIT

For more information on Techniquest's Education Programme or to make a booking, please ring **029 2047 5476** or email **[bookings@techniquest.org](mailto:bookings@techniquest.org)**

For terms and conditions please see [www.techniquest.org/bookings](http://www.techniquest.org/bookings)

**ONLY  
£3.95  
PER PUPIL**

## SEPTEMBER

- 7 Autumn (Toddler Day)
- 11-12 Special Education Needs Days
- 25-28 Blast Off!

## OCTOBER

- 2-4 All About Me  
Blast Off!
- 5 Monsters (Toddler Day)
- 9-12 All About Me  
Blast Off!
- 16-19 Blast Off!
- 23-26 Blast Off!

## NOVEMBER

- 6-8 The Story Factory  
Blast Off!
- 9 Colour and Light (Toddler Day)
- 13-16 The Story Factory  
Blast Off!

## DECEMBER

- 4-5 New Christmas Show  
Blast Off!
- 6 Nurseries Day
- 7 Winter Wonderland (Toddler Day)
- 11-14 New Christmas Show  
Blast Off!
- 18-21 New Christmas Show  
Blast Off!

## JANUARY

- 11 At the Zoo (Toddler Day)
- 15-18 Around the World  
Blast Off!
- 22-25 Around the World  
Blast Off!
- 29-31 Blast Off!

## FEBRUARY

- 1 Pirates and Treasure (Toddler Day)
- 5-8 Blast Off!
- 19-22 At the Circus  
Blast Off!
- 26-28 At the Circus  
Blast Off!

## MARCH

- 1 Daffodils and Dragons (Toddler Day)
- 5-8 Blast Off!

## APRIL

- 9-11 Blast Off!
- 12 Leap into Spring (Toddler Day)
- 16-19 Blast Off!
- 23-26 Blast Off!
- 30 Blast Off!

## MAY

- 3 Garden Flowers (Toddler Day)
- 7-10 Fairytales  
Blast Off!
- 14-17 Fairytales  
Blast Off!
- 21-24 Blast Off!

## JUNE

- 4-6 Blast Off!
- 7 Under The Sea (Toddler Day)

## JULY

- 5 Down at the Farm (Toddler Day)
- 9-12 At the Seaside  
Blast Off!
- 16-19 At the Seaside  
Blast Off!

**TEACHERS  
PLAN FOR  
FREE**

## Take a look at our video!

Take a look at Techniquest's new, short video which illustrates what a great place for schools Techniquest is, and shows how well organised a visit is from arrival to departure.  
[www.techniquest.org](http://www.techniquest.org)

## Easy planning for teachers

We welcome teachers visiting Techniquest, free of charge, any time during opening hours, to help in planning their visit – just advise our staff at the admissions desk when you arrive. They will be happy to process your free entry.

# SHOWS

**The seven areas of learning are all covered through a Science Theatre show, time on the exhibition floor, Delyth's Den plus pre-and post-visit resource materials. Pupils are encouraged to learn through investigation, discussion, and collaboration. Delyth, Techniquest's cheeky and inquisitive young dragon is on-hand to help pupils apply ideas and solutions to practical maths and science tasks and real life problems.**



2-4, 9-12 October

## ALL ABOUT ME

It's Delyth's birthday and she's having a party at the fun fair, but look - the rollercoaster is broken! Can you help Delyth fix it by completing different challenges? Can you build a human body and fit teeth into a giant mouth? Can you identify fairground sounds and make a clucking noise with a cup? Use all your senses to win the seven missing cogs and fix the roller coaster before Delyth's friends arrive!

6-8, 13-16 November

## THE STORY FACTORY

All of the fairytale characters are angry because their stories have been muddled up at the Story Factory. Can you help Delyth sort out what is missing and send the right materials to each character? The Three Little Pigs can't build their houses, the Frog Prince has dropped his crown in the pond and the Snow Queen has lost all her snow. Make the messiest slime for the Giant's house and get the Three Billy Goats Gruff safely over the bridge without waking the ogre! Choose between Delyth's bicycle, lorry, train or boat to deliver the right materials.

Sponsored by Arriva Trains Wales

4-5, 11-14, 18-21 December

## NEW CHRISTMAS SHOW

Techniquest's new Christmas show, packed full of science fun for the festive season.

15-18, 22-25 January

## AROUND THE WORLD

Delyth is going on holiday and she wants you to come with her! Can you read the weather forecast and help her decide what to pack? Which way to the airport and how should she get there? Visit far away countries and find out how they are different to Wales.

19-22, 26-28 February

## AT THE CIRCUS

Delyth is so excited because she's going to the circus, but when they arrive her Mum suddenly sneezes and blows the Big Top away! The acts are in chaos and the show is going to be cancelled. Can you help Delyth save the circus using your calculating and interpreting skills? You will have to put up the tent and sort out what has gone missing. Can you balance the weights for the strongman and help stack the clowns by using numbers? You can also help a human cannonball. Maybe there's even a dragon around who can add some fire to the show?!

7-10, 14-17 May

## FAIRYTALES

The castle is in chaos and all the fairytale characters are upset! Delyth needs your help to transform the dark, gloomy castle into a bright and cheerful place. The princess is scared of dark shapes in her room, but what is casting shadows on her wall? Can you find the leprechaun's gold at the end of the rainbow, and give the fairy back her glow by using UV light? You can even become part of a circuit of human fairy-lights! Find the wizard's magic wand and maybe we can all work together to help Delyth breathe fire!

9-12, 16-19 July

## AT THE SEASIDE

Penny the Pirate has lost her treasure! Can you help Delyth find it by plotting your way across Penny's treasure map? Discover the effect of the weather and seasons on plants, learn why crabs walk sideways, and sort animals and plants by placing them back in their habitats. On your quest, you might even come face-to-face with a shark! Use your problem-solving skills to discover the buried chest, and uncover the riches hidden inside!



# PLANETARIUM

**Enter Techniquest's new digital Planetarium and take a journey through the Universe – discovering stars, planets and distant galaxies!**

**The Planetarium show comprises a 30 minute interactive presentation incorporating full-dome video, props and demonstrations.**

Pupils learn to identify stars, planets and constellations that can be seen from Earth, then venture beyond the Milky Way, towards the great wonders of the Universe. Each show is tailored to the age, ability and level of knowledge of the pupils. Techniquest's presenter will ask questions in order to encourage engagement, thought and suggestions, allowing pupils' decisions to influence the direction of the star tour.

## BLAST OFF!

Delyth is blasting off into Space! Would you like to go with her? Delyth only has a week off school: can you help her choose where to go and what to take with her? Discover how humans work and eat in space and watch the first man walking on the Moon. What does our planet look like from Techniquest's rocket and can you really see the Earth rise when you're standing on the Moon?

**25-28 September**

**2-4, 9-12, 16-19, 23-26 October**

**6-8, 13-16 November**

**4-5, 11-14, 18-21 December**

**15-18, 22-25, 29-31 January**

**5-8, 19-22, 26-28 February**

**5-8 March**

**9-11, 16-19, 23-26, 30 April**

**7-10, 14-17, 21-24 May**

**4-6 June**

**9-12, 16-19 July**

## SPECIAL EDUCATION NEEDS DAYS

### 11-12 September

The first Special Educational Needs Days at Techniquest offers groups the best of Techniquest at a quieter time, with additional interactive activities available on the exhibition floor. All of our permanent exhibits are wheelchair-friendly and our staff are happy to help with any specific needs.

#### LIGHT FANTASTIC SHOW

Step inside the light dome and be immersed in wonderful coloured light. Let rainbows cascade over you and witness the glistening effects of mirror balls and optic fountains. Come and capture a shadow and learn about light in this vibrant hands-on experience.



#### FIRE AND LIGHT SHOW

Settle back in your seats and enjoy our stunning visual fire and light display in the Science Theatre. Watch us burn money on stage and create cold liquid light. Learn about glowing jellyfish and how different chemicals are used to make beautiful fireworks. You will even see a flaming tornado spinning before your eyes!

#### MUSIC MAKERS

Wicked Prince Slywarp hates music and wants to cast a spell so that everyone forgets music forever! Can you help Delyth to save music in Wales by exploring different types of music and sounds? Learn to describe and identify different sounds, and work out how to play unusual instruments. Help Delyth make lots of noise so that the Prince's spell won't work! Crack the musical code to get into the castle. Can you find a way to change the castle locks and chase the Prince away?

## TODDLER DAYS

**Once a month, young children can take their first steps to enjoying the world of science at special Toddler Days.**

They can take part in a range of activities designed to encourage them to learn while they play in a colourful and sociable setting. Among the vast range of interactive exhibits in the child friendly centre, there is a chance to launch a hot-air balloon, fire a rocket, or play a giant keyboard. Toddler Day visitors can also join story-time sessions, improve hand and eye co-ordination with crafts and colouring and take their creations home.

Groups from schools and nurseries are welcome to attend Toddler Day. Admission costs £4.60 per child with supervising adults admitted free of charge.

Each Toddler Day has a separate theme.

**Coming up in the next academic year:**

<b>7 September</b>	<b>Autumn</b>
<b>5 October</b>	<b>Monsters</b>
<b>9 November</b>	<b>Colour and Light</b>
<b>7 December</b>	<b>Winter Wonderland</b>
<b>11 January</b>	<b>At the Zoo</b>
<b>1 February</b>	<b>Pirates and Treasure</b>
<b>1 March</b>	<b>Daffodils and Dragons</b>
<b>12 April</b>	<b>Leap into Spring</b>
<b>3 May</b>	<b>Garden Flowers</b>
<b>7 June</b>	<b>Under The Sea</b>
<b>5 July</b>	<b>Down at the Farm</b>

**NURSERIES DAY 6 DECEMBER**

Nurseries Day is a day specifically for nursery groups to book to come at Christmas time.

It has the same format as Toddler Day and has Winter Wonderland as its theme. Places must be booked in advance.

**All Foundation Phase programmes, cover the seven areas of learning, offering teachers a complete package of activities to support their teaching.**

Choose between a day of interactive shows or Planetarium sessions in Techniquest's portable, inflatable Starlab. Whichever you decide to book, each option offers a highly interactive experience for all pupils, plus pre- and post-visit support resources.

All programmes are designed to encourage pupils to learn through investigation, discussion, and collaboration. Pupils must identify, collect and organise information in order to answer questions and complete challenges.

School visits are organised over the telephone so that on the day teachers can simply focus on the learning experience.

**For information on costs of Techniquest programmes delivered at your school please ring 029 2047 5476.**

## INTERACTIVE SHOWS

Invite Techniquest into to your school and transform your hall into a Science Theatre! The variety of shows covers a wide range of topics encouraging pupils to question ideas and to think independently.

Post-visit support resources are available on Techniquest's website to extend the learning experience.

**Session length: 45 minutes**

**Maximum class size: 30 pupils**

**Maximum of 4 sessions per day**

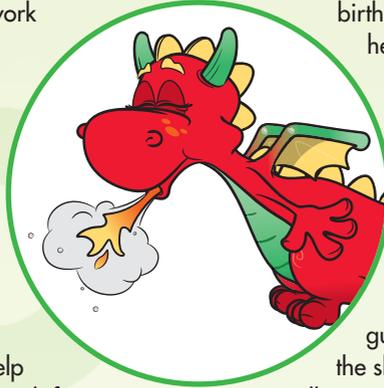
### TOY TROUBLE

Delyth has invited her friends over to play, but her naughty little cousin Dilwyn has messed up her room and broken all her favourite toys! Can you help Delyth to tidy up by sorting all of her things into piles? How can Delyth fix her toy car so that it moves without being touched and make her balancing toy work again? But Dilwyn's favourite toy is also broken. Help Delyth fix his rocket so that it flies sky high and then everyone can play nicely again.



## BODY BOTHER

Delyth's naughty little cousin Dilwyn is sick. Can you help Delyth work out what is the matter with him? Investigate the different parts of the body, exploring what could be making Dilwyn feel so unwell. Discover what is beneath your skin and learn the names of organs and how they keep you healthy. Has Dilwyn been eating too many sweets? Help Delyth to design a healthy lunch for him so that he won't get a tummy ache again!



## PARTY MATHS

Delyth's friends want to throw her a birthday party, but they need your help! Can you use your maths skills to work out the best time for the party, and create exciting sequence party games for the decorations? Make sure there are enough biscuits, marshmallows and sandwiches for all of Delyth's guests, and work out how much the shopping will cost. What coins will you need to spend and what change will you get? Become part of a human bar chart and arrange a seating plan so everyone has the best time at the party!

## MUSIC MAKERS

Wicked Prince Slywarp hates music and wants to cast a spell so that everyone forgets music forever! Can you help Delyth to save music in Wales by exploring different types of music and sounds? Learn to describe and identify different sounds, and work out how to play unusual instruments. Help Delyth make lots of noise so that the Prince's spell won't work! Crack the musical code to get into the castle. Can you find a way to change the castle locks and chase the Prince away?

## STARLAB

**Techniquest's Starlab is a mobile, inflatable planetarium that brings the night sky to your school hall. It can be set up in under thirty minutes and easily deflated to accommodate other uses of the hall during the day.**

Techniquest presenters structure each Starlab session around a 20 minute highly visual presentation, followed by an energetic, presenter-led sky tour, in which pupils identify stars, planets and constellations in the night sky!

Techniquest's highly experienced presenters can tailor shows to the ages, abilities and prior knowledge of pupils, as well as your educational needs and interests. If there is any particular aspect of astronomy you would like the presenter to focus on during the sky tour, whether it is science or mythology, planets or stars, feel free to discuss this when booking the show or with your presenter prior to the show.

**Show length: 30 - 40 minutes**

**Maximum class size: 30 pupils**

**Maximum of 6 sessions per day**

**Requires: 4.2m headroom,  
7.5m x 7.5m floor space and  
240v ac mains power supply.**

### NIGHT LIGHTS

Hywel the hedgehog is afraid of the night lights that come from far, far away. Can you help Delyth explore the night sky to encourage her friend Hywel to overcome his fears? Discover why we get night and day, and what causes shadows. Discover why some animals only come out at night, while others come out during the day. Afterwards, Delyth will help guide you through different constellations of stars that you can see in the sky at night.



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# TECHNIQUEST

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