

Workshops

Hands-on workshops are available at most times throughout the year but may not be available during special event weeks listed over the page. Please contact us to check availability. Where the workshop is listed as being suitable for more than one age, the workshop content is differentiated accordingly. The prices below are workshop prices for classes of up to 32. Please add £3.50 per pupil admission to these prices.

- Investigative play**EYFS (1 hour) £2 per pupil for play session only
- Science of our Senses**EYFS, Yr 1 (45 mins) £40
- Recycle Fun**KS1 (1 hour) £50
- Fabulous Fabrics**Years 1, 2 & 3 (90 mins) £60
- Explore Your Universe for KS1**KS1 (30 mins) 75p per pupil (minimum charge £20) Supported by the STFC
- Soap Suds**KS1, KS2, KS3, KS4 (45 mins) £40 Supported by Stephenson Group
- Story Time** Years 1, 2 & 3 (25 mins) 75p per pupil for groups of max 15
- Magnets and Springs**Year 3 (1 hour) £50
- Rocks, Volcanoes and Fossils**.....Year 3 (1 hour) £50
- Investigating Science Skills**Years 3 & 4 (1 hour) £50
- Tasty Toothpaste**Year 4 (1 hour) £50
- Homemade Switches** Years 3, 4 & 5 (1 hour) £50 Supported by Scottish Power
- Salt Solution** Years 4 & 5 (45 mins) £40
- Datalogging** Years 4, 5 & 6 (1 hour) £50 (with light, sound or temperature)
- Glorious Gases**..... Years 4 & 5 (1 hour) £50 Supported by RSC SCS
- Further Investigation Skills** Years 5 & 6 (1 hour) £50
- Potions** Years 5 & 6 (1 hour) £50
- The Suitcase Kids** Years 4, 5 & 6 (25 mins) 75p per pupil for groups of max 15

Goodie Bags

£2 and £3 Goodie bags may be ordered in advance from the Catalyst Gift Shop. These will be ready for collection on the day of your visit.

- Light Fantastic Show**KS2 (45 mins) £40
- Over the Mersey** KS2 (1 hour) £50
- Recycle It** KS2 (1 hour) £50
- Building Bridges**KS2 (1 hour) £50 Using class set of K'nex kit
- Bridges to Schools** Years 5 & 6, KS3 (90 mins) £60 Using our special 13m bridge kit Supported by Institution of Civil Engineers NW
- Mystery at the Manor** Years 5, 6 & 7 (90 mins) £60
- Fantastic Plastic**..... Year 5 & 6, KS3, KS4 (45 mins) £40 Supported by Perstorp
- WaterWatch NorthWest**..... KS2, KS3 (1 hour) £50 Supported by RSC Analytical Division NW
- Vitamin C** KS2, KS3 (45 mins) £40
- Stings** KS3 (1 hour) £50 Devised by the Centre for Life, Newcastle
- Ludicrous Liquids** KS3 (1 hour) £50
- Energy from Waste** KS3 (1 hour) £50 Supported by Viridor
- Origins** KS3, KS4 (1 hour) £50 Supported by RSC CICAG and HG
- Alternative Energy**Years 8, 9, KS4 (1 hour) £50
- Explore Your Universe** KS2, KS3 (1 hour) £50 Devised by the ASDC and supported by the STFC
- Explore Your Universe Masterclass** KS4 (3 hours) £10 per pupil including admission (Minimum charge of £250 applies) Devised by ASDC and supported by the STFC
- Oil for All** KS3, KS4 (45 mins) £40 Supported by SEKISUI Chemical Company
- Showering with Surfactants**KS3, KS4 (1 hour) £50 Supported by Innospec

Further details about each workshop can be found in the education section on our website www.catalyst.org.uk/download/Education/WorkshopsAvailable.pdf

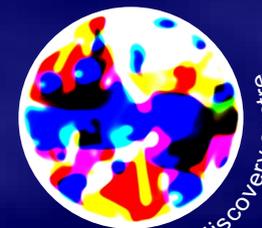
Directions

Located in Widnes, Cheshire, Catalyst is just minutes from the Runcorn/Widnes bridge. Easily accessible from J7 M62 or J12 M56. Follow signs to Widnes then brown and white tourism signs.

www.catalyst.org.uk

Education Programme 2016/17

Welcome to Catalyst!



catalyst science discovery centre

Catalyst aims to excite and engage your pupils with science and other STEM (science, technology, engineering and maths) subjects. As well as visiting the museum galleries, you can choose from a range of hands-on workshops and science shows that aim to get your pupils really excited about science.

This year our programme includes new workshops to support the KS2 curriculum, check out the details in the highlights section. Work on the Mersey Gateway Bridge continues just outside, so Catalyst is still a fantastic destination to inspire your pupils about engineering - why not come and have a go at building our 13m cable-stayed suspension bridge?

We are also pleased to be able to offer free careers events aimed at year 8/9 pupils where they get a chance to meet a number of scientists and find out about a variety of scientific careers. There is no admission charge for your pupils or staff, you just have to provide the transport. The next dates for these events are Wednesday 28th September, Tuesday 13th December and Wednesday 8th February. If you are interested in attending one of these events then please register your interest by emailing clare@catalyst.org.uk

Many of our workshops can be adapted for different age groups and age recommendations are for guidance only. You can always give us a call to see how we can tailor-make a visit specifically for your pupils!

Check out our programme overleaf or select from our wide range of workshops.



Mersey Road, Widnes, Cheshire WA8 0DF Telephone 0151 420 1121



CatalystScienceDiscoveryCentre



@CatalystSDC

Autumn Term

11-14 Oct - Maths Week KS3

Use our unique selection of maths equipment for an hour of puzzles, games and problem solving. *£1.25 per pupil + admission*

For an extra teamwork challenge, book our **Towering Tetrahedron** workshop to build a room filling tetrahedron. *£40 per session*

8-11 Nov - Bridges Week KS2, KS3

Inspire your pupils about bridges and engineering in the shadow of the new Mersey Gateway Bridge. *£60 per session + admission. Book a Bridges to Schools workshop and get a Building Bridges workshop half price*



22-25 Nov - National RSC Chemistry Week - KS1, KS2, KS3, KS4

A week of workshops in which pupils at all levels get a chance to try out being a chemist. Choose from Soap Suds (KS1), Investigating Science Skills (Yr 3/4), Further Investigation Skills (Yr 5/6), Fantastic Plastics (KS3) and Showering with Surfactants (KS3/4). *£40/50 per session + admission*

29 Nov -2 Dec - Materials Shows KS1 & 2 Introductory Solids, Liquids and Gases for KS1. Pupils see some exciting and unfamiliar solids, liquids and gases with an emphasis on 'wow' science. **Solids, Liquids & Gases** for years 1 to 4. Pupils learn about different material properties in this spectacular demonstration using liquid nitrogen and solid carbon dioxide. The explosive **Crazy Changes Show** for years 5 & 6 follows on from solids, liquids and gases to explain reversible and irreversible changes by heating, cooling, burning and mixing. *All of these shows cost £1.25 per pupil + admission*

Spring Term

17-20 Jan - OUTBREAK! Years 6 & 7

Following the aftermath of a meteorite strike, a strange new disease has arisen in the local area. Can your pupils investigate collaboratively to seek answers and save the day? Bursting with science experiments this 3 hour special experience will challenge and excite your class as they take on the role of scientists in this open ended workshop. *£10 per pupil including admission & workshops (Min charge of £250 applies)*

British Science Week

9-10 Mar - Flash Bang, What a Reaction! KS3

An explosive, states of matter and chemical reactions show with demonstrations using explosions, burning, colour changes and gas! *£1.25 per pupil + admission*

14-17 Mar - Materials Shows KS1 or KS2

Details as per shows in December. *£1.25 per pupil + admission*

Summer Term

16-19 May - OUTBREAK! Years 6 & 7

Details as per the workshops in January. *£10 per pupil including admission & workshops (Min charge of £250 applies)*

27-30 June - Chemistry at Work! KS3

Chemistry at Work returns for another year to enthuse and excite all who visit. It is an amazing opportunity for pupils to put the science they learn in the classroom into context within their everyday lives by taking part in fun, STEM related activities with companies such as Victrex, Croda and RS Clare. *Free admission - supported by the Royal Society of Chemistry.*



4-7 Jul - Materials Shows KS1 or KS2

Details as per shows in December. *£1.25 per pupil + admission*

Highlights and new developments for 2016/17

Glorious Gases KS2

Aimed at year 4/5, this workshop allows pupils to experiment with gases. From simple tests to prove that air really is there, to weird and wonderful demonstrations showing what would happen if there was no air, this workshop will help your pupils explore all kinds of ideas about gases.



Rocks, Volcanoes and Fossils KS2

Developed especially for year 3 pupils, this workshop looks at some of the exciting science related to volcanoes, fossils and rocks. Examine rocks, make a volcano erupt and make your own fossils to take home.

WaterWatch NorthWest KS2/KS3

A chance for your pupils to try some real analytical chemistry. They will use special kits and a variety of chemical tests to analyse stream water and find out what it really contains. We can provide water samples or you can bring your own to find out how healthy the school pond or local river really is! The kits can also be borrowed by schools and community groups so that you can use them at school (terms and conditions apply, please contact us for more details). This workshop and kit has been provided by the Royal Society of Chemistry Analytical Division Northwest.



Sleepovers

Why not bring your KS2 class for a sleepover visit in our Observatory gallery?

For **£30 per person** (minimum of 20 people including adults and pupils) you get exclusive use of the galleries, a hot supper from the cafe, sleepover in the 4th floor Observatory gallery, breakfast, a hands-on workshop and a science show! Telephone for available dates.

School rates

Admission is **£3.50** per pupil payable in advance or on the day. Workshops are additional.

Workshops: 45 minute sessions **£40**
(per class of 32) 1 hour sessions **£50**
90 minute sessions **£60**

OUTBREAK! - **£10** per pupil (including admissions and workshops) **Min charge applies*

Explore Your Universe Masterclass - **£10** per pupil (including admissions and workshops) **Min charge applies*

**Min charge mentioned above is £250.00*

Special events - **£1.25** per pupil + admission

Storytime & The Suitcase Kids - **75p** per pupil

FREE ADULTS - Adults are admitted free of charge on a ratio of:

1:5 KS1, 1:7 KS2, 1:10 KS3+

For health and safety reasons we recommend that you adhere to these ratios where possible. Additional adults £3.95

To book

Please telephone Meryl Jameson on

0151 420 1121, email any enquiries to clare@catalyst.org.uk or see the website at

www.catalyst.org.uk

Trails

When you make a booking you will be sent a master copy which you may photocopy for your pupils to complete as they explore the galleries.

KS1; Senses, Materials, Environment, Light and Colour, Healthy Humans or Super Scientists
KS2; Science, Light and Colour, Materials, Minibeasts or Environment
KS3; Maths, Science or Industry
KS4; Science, Molecules