

KS2 The prices below are workshop prices for classes of up to 32 pupils. Please add £3.50 per pupil admission to these prices.

Soap Suds - 45 mins - £40 per session (W) - Y3, Y4, Y5 and Y6

Pupils will learn about the process of making soap, a product which was manufactured here at Catalyst when it was a soap factory. They will look at the history of soap and how soap is made. They then make their own bar of perfumed and coloured soap which they can take home to use! *This workshop is supported by Stephenson Group*

Rocks, Volcanoes and Fossils - 1 hour - £50 per session (W) - Y3 and Y4

Pupils practice their observations skills by looking at rocks and find out about how some different types of rocks are formed. They learn about volcanoes and volcanic eruptions and have a go at making their own. Finally they discover how fossils are formed and make their own "fossil" to take away.

Being a Scientist - 1 hour - £50 per session (W) - Y3 and Y4

This workshop aims to enhance pupils understanding of scientific language and stimulate an interest in being a real scientist. Pupils will learn about making fair tests, predictions, recording measurements, gathering results and drawing conclusions by taking part in a series of fun, hands-on experiments.

Tasty Toothpaste - 1 hour - £50 per session (W) - Y3 and Y4

Pupils look at the effects that fizzy drinks have on their teeth - emphasizing the need to keep teeth clean. They discuss different types of teeth and follow our recipe to make their own toothpaste. They can then assess how effective their own toothpaste is and compare it to a range of real toothpastes (using "toothbrushes" on ceramic tiles – not in their mouths!)

Homemade Switches - 1 hour - £50 per session (W) – Y3, Y4 and Y5

Pupils use their knowledge of electrical circuits and then investigate how different switches can be used to turn things on and off. They then use everyday materials to construct some simple switches of their own and test them.

Data-logging - 1 hour - £50 per session (W) - Y4, Y5 and Y6

Pupils will use our class set of LOGBOX data-loggers to help link science and ICT. Investigate either **sound** or **temperature** depending on your programme of study.

Making a Medicine - £50 per session (W) - Y5 and Y6

This is designed to be a follow on from our "Being a scientist workshop". Pupils take on the role of a development chemist, make and test different medicines while practising their scientific enquiry skills.

Potions - 1 hour - £50 per session (W) - Y5 and Y6

A chance to have fun getting your pupils excited about chemistry. Pupils get an introduction to some surprising chemical reactions. They then use their investigative skills to have a go themselves at mixing some 'potions' and seeing how their potions behave.

Find out with Forensics -90 mins - £60 per session (W) - Y5 and Y6

A great way to combine practical science with collaborative skills. Pupils will work in small groups to collect evidence to enable them to solve the mystery using a variety of forensic techniques. The sessions will be held in the Catalyst Crime Lab and areas covered by the clues are: scene of crime observation, using simple soil analysis, using a microscope to match fibres, testing unknown powders, separating colours using chromatography, lifting and matching fingerprints, constructing an electrical circuit to create a burglar alarm, matching footprints, blood testing and DNA matching.

Fantastic Plastic – 1 hour - £50 per session (W) - Y5 and Y6

Pupils will learn about the properties and applications of some interesting and novel materials including plastics known as thermoplastics. They melt and mould a thermoplastic and use it to make a key ring to take away. *This workshop is supported by Perstorp*

Explore Your Universe - 1 hour - £50 per session (S) - Y3, Y4, Y5 and Y6

An interactive science show which aims to inspire pupils to think about the big questions being asked by people who work in physical sciences. Using equipment such as a Van de Graaff generator, IR camera and plasma ball, pupils will see how exciting the physical sciences can be. *This workshop is supported by the STFC*

Glorious Gases – 1 hour - £50 per session (W) - Y4 and Y5

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. *This workshop is supported by RSC SCS*

Light Fantastic Show - 45 minutes - £40 per session (S) - Y3, Y4, Y5 and Y6

This 45 minute interactive show includes many different demonstrations and cover concepts such as; white light is a mixture of colours / the primary colours of light (demonstrations using prisms and 'laser specs'), light travels in straight lines, the formation of shadows, different sources of natural and man-made light (including demonstrations using UV light, fluorescent lamp, fibre optics and glow-in-the-dark objects).

Bridges to Schools - 90 mins - £60 per session (W) - Y4, Y5 and Y6

Inspired by the new Mersey Gateway Bridge, being constructed just outside Catalyst, your pupils will find out about Cable-Stayed Bridges. They will take on roles as engineers and work as a team to construct their very own 13m cable stayed bridge. Will they be brave enough to try walking across it when it's complete? *This workshop is supported by the Institution of Civil Engineers NW and is only available at certain times throughout the year.*

Panoramic Halton - 1 hour - £50 per session (W) Y3, Y4, Y5 and Y6

This new range of workshops based in our glass-walled Observatory Gallery will give you a chance to find out more about the history and geography of the local area. Workshops can be tailored to suit the individual requirements of a KS2 class and include topics such as local history, geography and maths. Using the landscape outside as a stimulus, your class will have the chance to use our new, interactive tablets to find out more about the area whilst practicing key Maths and English skills. *Panoramic Halton workshops are supported by Heritage Lottery Fund.*

Suggested workshops include:

Crossing the Mersey

Recreate the days of the transporter bridge in this fascinating session looking at the geography through our windows. Discover how people have managed to cross the Mersey through the ages.

Landmarks and Maps

Study the geography of Halton and practice your map skills. This can be combined with some maths, based on the local area.

Building Bridges

This session takes place in our observatory. Using local bridges for inspiration, pupils find out about simple ways of constructing bridges. They are challenged to build and test their own bridge using our special K'nex kits.

History of Halton

Find out about the rich heritage and history of the local area through maps, photographs and video clips.