



## Schools' Learning Programme



Discover the science behind the glass making process, explore our exciting range of art exhibitions and learn about the history of glass making

Inspiring people to learn about, make and enjoy glass.



'He was fantastic with our children. He was friendly and positive. He gave excellent clear instructions to the class and they always understood what they were doing and what was happening next. It was a pleasure and I will return again with another class and recommend the workshops to colleagues'

Primary teacher feedback

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At National Glass Centre we use glass to help young people explore STEAM (Science, Technology, Engineering, Art and Maths) subjects. We encourage creativity and using our exhibitions as inspiration for children learn about the art, science and history of glass.

Our Learning and Engagement team are all Arts and Design graduates and share their knowledge, skills and enthusiasm for creative learning when they facilitate these exciting school workshops.

All of our visits include the opportunity to see glass being made in our hot

glass studio. Witness the changing states of this amazing material as molten glass is formed into a finished, solid object.

Our skilled professionals provide a commentary which describes the tools, science and creative making processes that are being showcased.

Our workshops are available for non-school groups such as Brownies, Cubs, U3A, WI, and all other community groups. Themes and techniques are adapted for suitability.

# CURRICULUM KEY

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Use this key to quickly find out how each workshop links to the curriculum:



Art & Design



Design & Technology



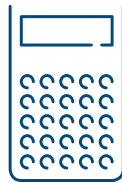
Science



History



English



Mathematics



Geography



Religious Studies

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## Special Educational Needs and Disability (SEND)

National Glass Centre staff are experienced in working with groups with additional needs. Workshops do not provide any barriers to participants however please inform us of the needs of your group when you book so that we can prepare resources in advance. We have worked with schools to develop specific resources, including a set of symbols that support our workshops and a visual guide of the Centre.

We are a fully accessible building with purpose built lifts, ramps, accessible toilets on both levels and a changing places facility with hoist. There is a hearing loop system in the Hot Glass Studio, Visitor Services area, Shop and The Glass Yard eatery.

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## Arts Award

We offer all five levels of Arts Award with Discover being built in to many of our one day Primary school workshops. Find out more on page 14.

## Coming soon...

The Northern Gallery for Contemporary Art is currently relocating to the University of Sunderland and will open a new gallery space later in 2017. Information about opportunities for school visits will be available later in the year. In the meantime, please keep up to date by joining our mailing list, through the website or by following us on Twitter, Facebook and Instagram

**Northern Gallery for Contemporary Art.**

## Gallery Glass – full day workshop



**Participate** in gallery tours and discuss the art on display across our different gallery spaces.

**Learn** about the artists' ideas and glass making processes. Choose a piece of artwork, write a review and share to the group.

**Discuss** measurement, scale and proportion. Investigate shape by using maths to create symmetrical designs.

**Create** a fused glass decoration inspired by symmetry. Learn about glass making processes and equipment.

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### Learn

- About prominent artists working in glass and their ideas
- New vocabulary
- Writing for different purposes
- Identifying lines of symmetry (KS1)
- Materials and techniques
- How to create a symmetrical pattern (KS1)
- How to present ideas
- Discuss personal thoughts
- How hot glass is shaped into objects
- How to paint on glass

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### Get inspired by

- Hot glass demonstrations
- Art exhibitions

### Use

- Pencils, paper, mirrors, rulers, glass, glass paint pens

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**Cost: £8 per pupil / Years 1 – 6  
KS1 and KS2 (adapted for suitability)**

Also available as a half day workshop without a glass making activity, £4

## Architecture: Buildings and Materials – full day workshop



Explore National Glass Centre and visit St Peter's Church to compare old and new buildings using a range of sources and materials.

Use a viewfinder to make observational drawings, draw a map of the route between the two buildings and use acetate to create a stained glass window design.

Learn about different building materials and discuss their uses.

Make a glass painted decoration, taking inspiration from the stained glass windows in the church.

### Learn

- About elevation drawings
- Using a viewfinder
- Scale
- Material properties
- Mapping
- Stained glass
- Drawing from observation
- How to paint on glass
- How hot glass is shaped into objects
- Hear about how a waterjet cutter works

### Get inspired by

- Architecture
- Stained glass
- St Peter's Church tour
- Hot glass demonstrations

### Use

- Paper, pencils, rulers, view finders, glass, glass paint pens, acetate, markers

**Cost: £8 per pupil / Years 1 – 6  
KS1 and KS2 (adapted for suitability)**

Also available as a half day workshop without a glass making activity, £4

## Changing States – full day workshop



**Learn** about the science of glass with exciting experiments using a range of materials. Practice measuring and making predictions.

**Discuss** findings and write up the outcomes of the experiments.

**Draw** the experiments and label the equipment.

**Create** a fused glass tile using coloured glass tiles and frit. Learn about the glass fusing process of heating and cooling and how a kiln works.

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### Learn

- Scientific properties of glass and other common materials
- Scientific vocabulary
- Changing states - solid and liquid
- Observing closely using basic equipment
- Performing simple tests
- Identifying and classifying
- Use scientific language
- Draw and label a diagram
- Identify differences, similarities and changes and relate them to scientific processes
- Use observations and ideas to make predictions
- Gather and record data
- Identify everyday materials and their properties
- How to make fused glass artwork
- How hot glass is shaped

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### Get inspired by

- Hot glass demonstrations
- Gallery tours
- Practical experiments

### Use

- Beakers, measuring jugs, scales, glass, glass grains, glass tiles

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**Cost: £8 per pupil / Years 1 – 6  
KS1 and KS2 (adapted for suitability)**

Also available as a half day workshop without a glass making activity, £4

## Adventure Backpacks

Our backpacks are full of activities and equipment and are ideal for self-guided visits. You can tailor your visit to the interests of your group and spend as long as you want exploring the Centre. £1 per person.



## SECONDARY

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Our secondary school workshops take inspiration from our exhibitions programme which showcases artwork exploring concept and technique by leading international artists working in glass.

We use the art work as a starting point for all our creative workshops to devise glass making activities that can be used to add additional skills and experiences to school project work.

The content of our workshops contribute to different levels of Arts Award. We can work with teaching staff to develop a workshop theme and support students in achieving their Arts Award qualifications.

## CAREERS IN GALLERIES AND MUSEUMS

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As well as our practical glassmaking workshops for secondary school students, we also offer a Careers in Galleries and Museums day. Students work with three members of staff in varied roles across Learning and Engagement, Exhibitions and Marketing and Communications. The day consists of a tour of the building and an introduction the Centre and the aims and objectives of the organisation. The tour is followed by three interactive talks and activities

where students will find out about what it takes to work in the arts.

This workshop can stand alone but can also be part of an extended project in partnership with This is Creative Enterprise. To find out more about the offer, visit their website [thisiscreativeenterprise.com](http://thisiscreativeenterprise.com)





### Glass Cutting and Fusing – full day workshop



Explore ideas and techniques

Use glass cutters and cutting oil, PPE, sheet glass, glass grains and kilns

Learn about glass techniques and designing a finished piece

Make a fused glass panel inspired by our exhibitions or your current school project

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#### Learn

- The process of designing a glass panel
- How to cut and fuse glass
- How kilns operate
- How hot glass is shaped into objects
- How to adapt ideas to different media
- About our exhibitions

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#### Get inspired by

- Art exhibitions
- Hot glass demonstrations
- Learning new techniques

#### Use

- Paper, pencils, rulers, glass cutters, set squares, PPE, sheet glass, glass grains

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Cost: £15 per pupil / Year 7+

### Screen printing – full day workshop



Develop design skills and transform drawings on paper into a glass screen print in our studio

Use UV exposure unit, glass enamels, silk screens, glass, printing tools

Learn about screen printing on glass

Make a multi-layered fused glass screen print

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#### Learn

- How to expose onto and print with a silk screen
- How to design multi-coloured prints
- Drawing from imagination
- Separating imagery into colours
- How to create opaque drawings
- How to fuse layers of glass
- How hot glass is shaped into objects

#### Get inspired by

- Art exhibitions
- Learning new techniques
- Hot glass demonstrations

#### Use

- UV exposure unit, glass enamels, silk screens, glass, printing tools

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#### Add on Arts Award

This workshop is also available as a complete Explore Arts Award which includes the following additional activities and experiences:

- Mono printing workshop
- How to present work professionally
- Researching artists
- Meet a young artist and find out about careers in the arts
- Arts leadership

This workshop is over two separate days; one at National Glass Centre and one in school with National Glass Centre staff.

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Cost: £15 per pupil / Year 7+

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Cost: £30 per pupil / Year 7+

## SELF-GUIDED VISITS

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We welcome self-guided visits and can provide you with a suggested itinerary to make sure you get the best out of your time here. It is recommended that groups are split into a maximum 15 to make it easier to navigate the exhibitions. All self-guided visits must be booked in advance to avoid overlapping with other groups. There is no charge for groups to visit under their own steam.

Groups can book the use of one of our learning spaces for lunch, storage of belongings and any other activities for a fee of £25, subject to availability.

## HOME EDUCATORS

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Based on our school workshops, these day long workshops for home educated families have been adapted for smaller groups. Workshops will be running throughout the year for different age groups and will be bookable through our online shop.

The content and price of these sessions is exactly the same as those advertised to schools. Please check our website for details of the next available dates.

## TEACHER AND EDUCATION PROFESSIONALS CPD

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We deliver CPD to teachers of both primary and secondary school students; details of our latest CPD offer can be found on our website. If you would like to arrange a bespoke

activity for a department or the entire staff, we can work to develop an exciting and engaging programme of activities designed to broaden creative skills.



# ARTS AWARD AT NATIONAL GLASS CENTRE

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We are committed to providing arts education to ensure young people have the opportunity to engage positively with the arts as part of their personal development. We can support all levels of Arts Award for part or all of an award and we can work in collaboration with schools and colleges to develop and deliver a project that is relevant and inspiring. There are five levels of Arts Award suitable for ages 5 to 25, four of which are on the Regulated Qualifications Framework, (Explore, Bronze, Silver and Gold). Members of National Glass Centre staff are trained advisers at all levels and we are a registered Arts Award Centre and Arts Award Supporter. Arts Award is managed by Trinity College London in association with Arts Council England.

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## Creative workshops to fulfil Arts Award across different levels are as follows:

### Discover

Gallery Glass / Compare Contrast Create / Glass Cutting and Fusing / Screen printing on Glass

(complete award for all workshop)

### Explore

Three day Explore with either Glass Cutting and Fusing, or Screen Printing on Glass. These workshops take place at school and at National Glass Centre on non-consecutive days (complete award)

Glass Cutting and Fusing / Screen printing on Glass (One day workshop - part A)

Gallery Glass / Compare Contrast Create (One day workshop - part B)

### Bronze

Glass Cutting and Fusing / Screen printing on Glass (One day workshop - part A)

Gallery Glass / Compare Contrast Create (part B)

### Silver

Gallery Glass / Compare Contrast Create / Glass Cutting and Fusing / Screen printing on Glass (unit 1 part C)

### Gold

Volunteering and work placement opportunities (unit 1 part B)

## PROJECTS

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We offer bespoke projects for all ages, providing students with the opportunity to make larger pieces of work and gain an in-depth knowledge and experience of glassmaking techniques and equipment.

National Glass Centre staff will co-ordinate all aspects of the project, working with staff at the school to develop ideas and relevant content to meet your objectives. As a guide we have three different levels of project which include Arts Award as standard, see table below, however we can develop projects that are outside of these parameters.



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### Discover

2 day project  
Starting from  
£750 for a group  
of 30 children

One day spent in the Centre, participating in gallery activities and glass fusing session. Follow-up day in school reviewing and sharing thoughts about an artist, and participating in glass painting activity.

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### Explore

3 day project  
Starting from  
£1,100 for a group  
of 30 children

Working with Centre staff over two non-consecutive days to learn different glassmaking techniques. Follow-up visit to the school to share project work and deliver an additional activity. This project includes support for completing the Explore Arts Award.

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### Advanced Explore

5 day project  
Starting from  
£1,800 for a group  
of 30 children

A completely bespoke project developed with a freelance glass artist(s) making larger scale, more involved work to complement project work within school. Pupils will work with two different techniques and gain an in-depth knowledge of the material and what it's like to be an artist. Centre staff will spend a day in school to support the Explore qualification. This project also includes a careers in the arts session in school.



## PLANNING YOUR VISIT

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Advance booking is essential for all workshops and self-guided visits. Workshops are available on Tuesdays, Wednesdays and Fridays. Upon booking we will provide you with risk assessment(s) for the activities you have booked. We have first aiders and fire wardens on site at all times. We are a fully accessible building with facilities to meet our visitors' needs. Please call to discuss any requirements in more detail or to arrange a pre-visit.

### SHOP

National Glass Centre's shop is full of exciting and intriguing products, but can be a busy place during school visits. Take the hassle out of your visit to our shop by pre-ordering our shop packs for each of your pupils. Shop packs are available at £2.50, £3.00 and £3.50 and contain a selection of glass souvenirs and stationery.

### CANCELLATION

If you need to cancel your visit for any reason please inform us more than 14 days before the date of your visit. Any cancellation within 14 days of the visit will be subject to a cancellation fee.

### PARKING

There are parking bays for coaches located in the National Glass Centre's Car Park. Further information and directions to the Centre can be found on our website.




### CONTACT US

For bookings and general enquiries please contact a member of our Learning and Engagement Team on [learning@sunderland.ac.uk](mailto:learning@sunderland.ac.uk) or 0191 515 5523.

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### CONNECT

Join our mailing list at [nationalglasscentre.com](http://nationalglasscentre.com)

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## Northern Gallery for Contemporary Art.

at National Glass Centre

Email: [ngca@sunderland.ac.uk](mailto:ngca@sunderland.ac.uk)

Website: [www.ngca.co.uk](http://www.ngca.co.uk)

-  [NGCASunderland](#)
-  [Northern Gallery for Contemporary Art](#)
-  [ngcasunderland1](#)

National Glass Centre  
is part of the University  
of Sunderland



University of  
Sunderland



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