Learning through glass: student-led object-handling sessions for primary schools

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The Museum in a Box: medicinal and utilitarian glass bottles from the 18th to 20th centuries. Credit: Francois Devillers

Last September I was offered a set of medicinal and utilitarian glass bottles dating from the 18th to early 20th centuries. My project was to put together a range of different medicinal and utilitarian glass bottles in the hope of awakening children's interest in the different designs and uses of glass artefacts. I intended to illustrate the main techniques of glass blowing and their evolution from mouth-blown to machine-made in England (18th to early 20th centuries) as well as bringing some broad knowledge on glass-making history.



Recycle Archaeology logo

My project was part of my master's degree in Museum and Gallery Studies at Kingston University. My course offered students the opportunity to create a Museum in a Box for schoolchildren, working with local schools (St John's Church of England Primary School and Long Ditton St Mary's Junior School). The purpose was to reflect on the process of creating the box, interpreting the artefacts, discussing the design of the education sessions and how to reach this particular audience type. Each student received artefacts from Recycle Archaeology, an organisation that aims to recycle de-selected materials from archaeological excavations (see previous issue of The Archaeologist), providing heritage artefacts to schools and communities.

> Master's students from Kingston School of Arts, at St John's Church of England Primary School. Credit: Helen Wickstead

The Museum in a Box

I selected eight artefacts in the Recycle Archaeology storehouse: seven glass bottles and a ceramic pot.

I managed to determinate the approximate age range of each bottle, observing mould seams, morphology and embossing. I concluded that two of the bottles I had selected were from the 18th century, likely free-blown, three were from the 19th century, mouth-blown, and two from the early 20th century, machinemade. Several of these had interesting stories to tell. like the 'Ballast Bottle' - a 19th-century round-bottom bottle, made in thick glass and which couldn't stand up, whose primary use was to contain carbonated soda but which found a second purpose by ballasting the holds of merchant ships bound for the Americas or an 18th-century medicine bottle found in Fulham High Street, not far from Chelsea Physic Gardens, where

apothecaries moved to from their previous headquarters in the Dominican priory of Black Friars after the Great Fire of London in 1666

I put this information together in a leaflet for teachers, with a brief history of glass making, its main techniques and a diagram showing bottle morphology.

My first encounter with the children presented a first glimpse of my audience and the way I could build my Museum in a Box. The children wanted to experiment with the artefacts; they wanted to feel them. They looked at the objects from all angles, noticing some marks here, some stains there. Most of them tried to smell them, others put the bottles near their ears to check if there was a sound, like they would do with seashells. They needed to explore the artefact's full sensory potential. Touching is the way children learn from birth, and as young children (they were in year 5), this reflex was still very strong.



















Thus, the Museum in a Box would need to allow the children to touch the artefacts; but there was an inherent challenge in this collection of medicinal bottles: the objects were glass and could be hazardous if broken. I needed to find a compromise in the building of my box. I took the decision to mount each bottle in ethafoam in an individual crystal box, with a lid. The children would be able to take the crystal box in their hands, to open the lid and to touch the object, to stroke it, smell it, and listen to it if they wished, without removing the bottle from the box.

My second visit at Long Ditton St Mary's primary school met my expectations. The children grabbed the crystal boxes and passed them from hand to hand, stroking the objects, smelling them and inspecting the details with the magnifying glass I added to the box.

Glass making was the link through the ages which allowed these children to get some perspective, the glass bottles resonating in their everyday lives, bridging the time gap and offering the multi-sensory values of this object-handling experience.

Francois Devillers

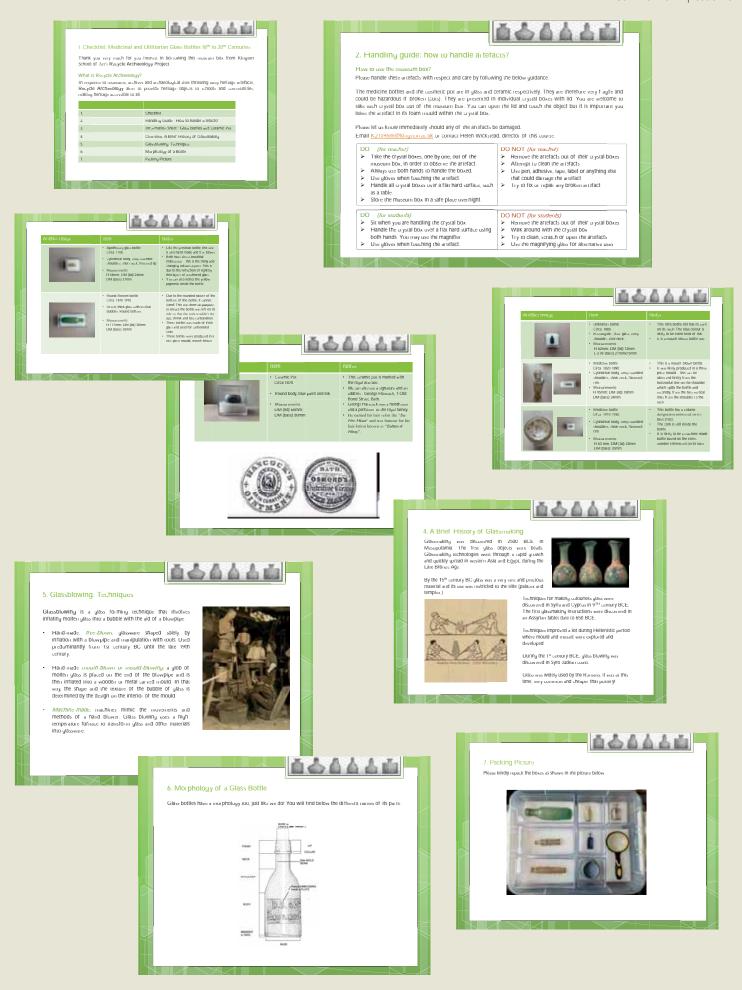
Francois is a student of the Museum and Gallery Studies MA at Kingston School of Arts. The course explores a range of topics including object



handling, disposal and rationalisation, which have been part of Francois' focus. This project is one of the outcomes of such reflections.

Francois also works with French national heritage craftsmen on restoration projects and previously managed his own company for 15 years in interior design for public spaces in France.

Mounting of the objects in ethafoam. Credit: Francois Devillers



Extracts from the information leaflet for teachers, with a brief history of glass making, its main techniques and a diagram showing bottle morphology. Credit: Francois Devillers