



# Architecture Workshops

## Key Stage One & Reception

Designed to stimulate imaginations and excite children and teachers alike, these workshops focus on simple ideas to great effect. Using numbers, counting, shapes and space pupil's work together to build simple modular forms, which go on to form parts of KS2 workshops.

**My First Structure; (tetra) reception; max 16 pupils (30 - 45 minutes)**

**Key elements;** listening, cooperation and teamwork, 2d & 3d shapes  
Working in a trio or pairs, pupils make simple 2d and 3d shapes, which are connected together to form larger versions of the same. Where possible the children get inside the large structures.

**The Bird House; Year 1 & 2; max 30 pupils (1 hr.)**

**Key elements;** reading, listening, cooperation and teamwork, 2d & 3d shapes

Reading, the children listen and answer questions in order to solve the problem and build the birdhouse. Then working together they build structures to make different types of dwelling. The finale of the workshop is putting as many structures together to make a 5m high bird house tower.

**Tetra; Year 1 & 2; max 30 pupils (1 hr)**

**Key elements;** DT, listening, cooperation and teamwork, problem solving, 2d & 3d shapes

Culminating in a spectacular structure, the children build tetrahedrons, as individuals or in pairs. These simple modular forms are connected together in small groups, to form larger structures., culminating is one huge tetrahedron 4m high that the whole class can get inside.

**Bridge Building; Year 2 & 3; max 30 pupils (2 hrs)**

**Key elements;** DT, maths, listening, problem solving, teamwork, cooperation, imagination

New, an adapted version of our most popular workshop, Bridges Maths and Design for older Key Stage 1 and younger Key Stage 2 pupils. Working individually, in small groups and altogether pupils build sections of a bridge up to 12m long, then problem solve how to make it stand.

## Key Stage Two

**Art & Sculpture; Max 35 pupils (2 hrs)**

**TA G&T yrs 4 - 6. KE; DT, Im, LS, M, PS, Cp, Tw**

Through playful hands-on exercises, pupils explore movement, balance, and composition during in the sculpture making process. They consider

### Art & Architecture Design Day;

Max 24 pupils (all day)

TA G+T Yrs 5&6

Developed to help spatial awareness and visualisation skills and in particular the three-dimensional perception of space and how it relates to visual form. Pupils explore architectural ideas, through hands-on activities which last all day.. Throughout the day pupils are asked to consider, discuss, and evaluate their work.

and discuss details of selected artists work, learning to evaluate their work and appreciate the perceptions of others.

### Bridges, Maths and Design; Max 50 pupils (2hrs)

TA yrs 4 - 6. KE; Cp, DT, Im, LS, M, PS, Sc, Tw

Pupils work individually and in teams to solve a bridging problem using a truss-girder bridge form, 2m in length. Each bridge is then discussed and evaluated. With smaller groups the trusses are joined together to form one long bridge, the pupils problem solving together to make it stand.

### Christian Architecture; Max pupils; 55 @ yrs 5&6; 45 @ yrs 3&4

TA Yrs: 4 - 6. KE; Cp, DT, Ht, LS, M, PS, Tw

Pupils learn about European Christian Architecture in the middle ages through the construction of a classical structure representing Ely Cathedral in Cambridgeshire England. Pupils walk around their huge Cathedral and marvel at its Octagon "Lantern" centre whilst learning about its ancient history.

### Egyptian: Pyramids; Max pupils; 55 @ yrs 5&6; 45 @ yrs 3&4

TA yrs: 2 - 4 KE; Cp, D, DT, Ht, LS, M, PS, Sc, Tw

The Ancient Egyptians are explored through their Pyramid building feats and techniques for cutting and transporting the stone. Pupils build small and giant pyramids and discuss the comparison of mass construction of stone pyramids with framework structures of today.

### Greco-Roman: Temple; Max pupils; 55 @ yrs 5&6; 45 @ yrs 3&4

TA yrs: 3 - 6. KE; Cp, DT, Ht, LS, M, PS, Tw

Pupils see how Classical Architecture has influenced the built environment using a combination of problem solving, and group work to construct a thrilling 2.5m high temple including columns, pediments and roof valleys. The workshop has either a Greek or Roman focus as required.

### Key to Abbreviations;

**TA:** Technical Ability of pupils workshop is suitable for;

**KE:** Key Elements involved in workshop

**Cp:** Cooperation; **D:** Drama; **DT:** Design Technology;

**Gg:** Geography; **Ht:** History;

**Im:** Imagination; **LS:** Listening Skills; **M:** Maths;

**PS:** Problem Solving; **Sc:** science; **Tw:** Teamwork

### Habitat & Shelter; (2hrs) Max pupils; 45 @ yrs 5&6; 30 @ yrs 3&4

TA yrs 3 - 6. KE; Cp, DT, Gg, Im, LS, M, PS, Sc, Tw

Pupils Explore the concept of habitats and are made aware of environmental requirements and personal space relating to their own homes through the design and construction of temporary shelters large enough for their team to sleep in their selected extreme environment.

### Indian Architecture; Max pupils; 55 @ yrs 5&6; 45 @ yrs 3&4

TA Yrs: 4 - 6. KE; Cp, DT, Ht, LS, M, PS, Tw

The Taj Mahal is leading example of Indian Architecture bringing together Mughal, Islamic and Hindu influences to celebrate the diversity of the Indian region of Agra.

### Islamic Architecture; Max pupils; 55 @ yrs 5&6; 45 @ yrs 3&4

TA Yrs: 4 - 6. KE; Cp, DT, Ht, LS, M, PS, Tw

Pupils use geometric shapes and patterns to create structures that represent Islamic Architecture. Using the Dome of Rock in Jerusalem as the key example of an Islamic place of worship.

### Mega Maths Structures; (2hrs) Max pupils; 45 @ yrs 5&6; 30 @ yrs 3&4

TA yrs 3 - 6. KE; Cp, DT, Gg, Im, LS, M, PS, Sc, Tw

Developed to encourage pupils to pursue their own creativity and imagination. Pupils design and build large structures to a theme. The workshops conclude with self evaluation of the structures.

**Sense Of** Pupils interpret their local environment, either town or school.  
**Place:** Best combined as part of a local investigation or design project.

**Abstraction:** Pupils build to a pre-determined theme. Combine with own project for the wow factor e.g. Dinosaurs; Figures; Sea Life; Space; Transport.

**Sacred spaces:** Pupils design and build their dream spaces in small teams Use as part of personnel development.

### Olympic Sculptures; (2hrs) Max pupils; 45 @ yrs 5&6; 30 @ yrs 3&4

TA yrs 5 & 6 KE; Cp, DT, Gg, Im, LS, M, PS, Tw

Pupils are asked to design and build simple stylised sculptures which represent Olympic events as 3D iconography for the 2012 Olympic games. An understanding of the nature of abstract art is desirable.

### Skyscrapers; (2hrs) Max pupils; 45 @ yrs 5&6; 30 @ yrs 3&4

TA yrs 3 - 6 KE; Cp, DT, Gg, Im, LS, M, PS, Tw

Pupils attempt to design and build the tallest and most interesting skyscraper structure they can achieve without it collapsing. Huge fun with a serious message; the tallest is not always the best and uniqueness is everything! Combine both to achieve success. A tall open space is essential.

### The Temple of Solomon; Max pupils; 55 @ yrs 5&6; 45 @ yrs 3&4

TA Yrs: 4 - 6. KE; Cp, DT, Ht, LS, M, PS, Tw

A building of significance to the Hebrew faith and one described in ancient writings. Pupils can experience an introductory understanding of the Hebrew faith through the construction of "Solomon's Temple".

### Tudors: Globe Theatre; Max pupils; 55 @ yrs 5&6; 45 @ yrs 3&4

TA yrs: 3 - 6. KE; Cp, D, DT, Gg, Ht, Im, LS, M, PS, Tw

Pupils build structures individually and in groups, culminating with raising the roof of a giant model of London's Globe Theatre standing 3 metres high. Pupils imagine a Tudor audience being entertained by Shakespearian special effects and considering the Tudor toilet facilities!

### Victorian; Crystal Palace; Max pupils; 55 @ yrs 5&6; 45 @ yrs 3&4

TA yrs: 3 - 6 KE; Cp, D, DT, Gg, Ht, Im, LS, M, PS, Tw

Learning about the mass production of the industrial revolution, pupil's piece together building parts, they have previously made, to form one large single enclosure. Enacting a triumphal procession through the palace pupils imagine the Victorian wonders it would have held.

### Viking; Long Boat; Max pupils; 55 @ yrs 5&6; 45 @ yrs 3&4

TA yrs: 3 - 6. KE; Cp, D, DT, Gg, Ht, Im, LS, M, PS, Tw

Pupils work individually and in groups as Vikings together to construct a Long Boat up to 12m in length, complete with sail and oars. Large enough for the whole group to sit in, they imagine navigating a passage around the Arctic Circle to North America, as the Vikings did, some 500 years before Columbus.

PO Box 217, Cambridge CB4 1EA

Tel: 01223 365378

Fax: 01223 362244

www.architectureworkshops.org

architectureworkshops@ntlworld.com

