

YFYS & KEY STAGE ONE WORKSHOPS



Designed to stimulate imaginations and excite children and teachers alike, these workshops focus on simple ideas to impart the knowledge, understanding and skills needed to engage in an iterative process of designing and making. Using Gross and Fine Motor Skills, numbers, counting, 2D & 3D Shapes and Space pupils work together to make simple modular forms, which go on to inform both KS2 and KS3 workshops.

Key Elements; Cooperation; DT; Imagination; Listening; Maths; Motor Skills; Problem Solving; Resilience; Science; Teamwork

My First Structure; 30 - 45 minutes Nursery* (8 pupils) & Reception (16 pupils)* 4 years min.

Working in pairs or small groups, pupils make simple 2d and 3d shapes, which are connected together to form larger versions of the same. When possible the children get inside the structure. **Height up to 2m**

Birdhouse; 60 minutes Yr 1 & 2 (30 pupils)

The Birdhouse structure is built using small sticks and involves the pupils reading together and answering questions to discover how the blackbird make the birdhouse. Pupils then use larger sticks, in groups to build their own Birdhouse structure, they can get inside. Can be used to describe the different types of dwellings.

Bridge Building; 2 hours Yr 1 & 2 (30 pupils)

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.

Fairgrounds;

Two of the most popular fairground attractions explored through creative hand-on building. Pupils work individually, in teams and altogether to build one of these structures in your school hall. Please specify which fairground ride you require when booking **Height 4-6m**

Ferris Wheel; 120 minutes with 30 pupils
Roller Coaster; 120 minutes with 30 pupils

Habitat & Shelter; 120 minutes Yr 1, 2 & 3 (30 pupils)

Using our experience from the KS 2 workshop we have developed a series of stylised structures that KS 1 pupils can build under instruction to build 3 large shelters. Alternatively, if your pupils are more able they can problem solve to build a shelter in a team. Working collaboratively and collectively pupils build shelters for different environments; Arctic; Rainforest or Desert. Choose One. **Height approx 2m**

Mega Structures / Sculptures; 120 minutes Yr 1, 2 & 3 (30 pupils)

Using our experience from the KS2 workshop we now offer schools the opportunity of us to develop a workshop based on your Design Topic. The workshop is presenter led with pupils problem solving collaboratively to create a huge structure. **Height 2-3m**

Octas; 60 minutes Yr 1 & 2 (30 pupils)

Pupils learn how to make an Octahedron from triangles, using large sticks, which are stacked to make a tower an dlay down to make atunnel pupils can walk through. **Height 8m**

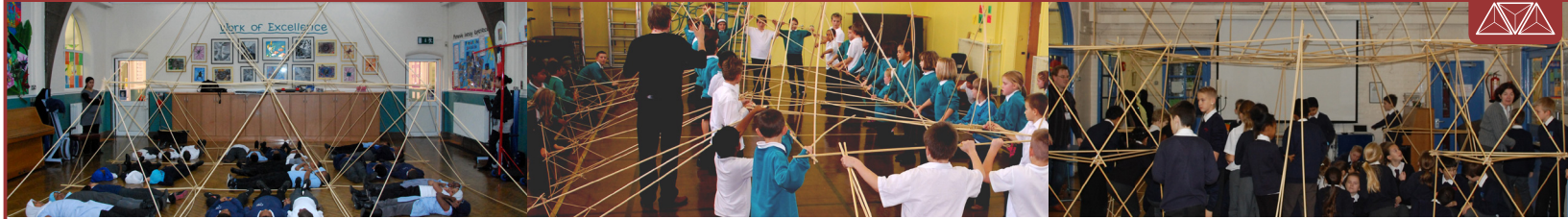
Tetra; 60 minutes Yr 1 & 2 (30 pupils)

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 in one huge tetrahedron 4m high that the whole class can get inside. **Height 4m.**



Architecture
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KEY STAGE TWO WORKSHOPS - HISTORY & HUMANITIES



Focused practical tasks taking History or Humanities as a starting point and using, DT, Mathematics, Science, Literacy and Drama to differing degrees pupils create large scale models of famous architectural landmarks that bring curriculum subjects to life.

History Workshops 120 minutes with up to 45 pupils

Key Elements; Cooperation; DT; Imagination; Listening; Maths; Motor Skills; Problem Solving; Resilience; Science; Teamwork;

Egyptian Pyramids; 90 minutes with 30 pupils

Pupils work individually, in teams and altogether, to construct small, large and finally one giant pyramid that they can all fit inside and become mummies. **Height 5m**

Galleons & Tall Ships; *Golden Hind; Mary Rose, HMS Vicory; SS Great Britain; The Beagle*

Whether a Tudor Galleon like, Sir Francis Drake's, Golden Hind or The Mary Rose or Nelsons flagship, Victory, Pupils work individually, in teams and altogether, problem solving to construct a massively long structure **Height 3m**

Greek Temple; *Parthenon*

Pupils work individually, in teams and altogether, problem solving to construct a thrilling 2.5m high Temple based on the the Parthenon Temple of Athena in Athens, including columns, pediments and roof valleys. **Height 3m**

Mayan Temple

The amazing feats of the Ancient Mayan people are explored through their stepped pyramid building. Pupils work in teams and altogether, problem solving to construct a 4m tall stepped pyramid with sacrificial altar atop. A large hall space is essential. **Height 4m**

Prehistory:

Stonehenge: To fit in with the curriculum on Bronze Age Britain pupils work individually, in teams and altogether, to construct Triliths and Megalith to build their own version of Stonehenge ... stickhenge! **Height 2m**

Roundhouse: Pupils explore the earliest dwellings by building a stick roundhouse that the whole group can fit inside. **Height 3m**

Roman Villa

Pupils work individually, in teams and altogether, problem solving to construct a thrilling 6m square Roman Villa, complete with columns, pediments and roof valleys and a well. **Height 3m**

Saxon Round House; 90 minutes with 30 pupils

To complement our Viking Longship and to fit the curriculum on Settlers & Invaders our Round House will fit 45 debating Saxons quite easily. **Height 3m**

Tudor Globe Theatre; 90 minutes with 30 pupils

Pupils work individually, in teams and altogether, problem solving to construct a model of the Globe. Pupils imagine a Tudor audience being entertained by Shakespearian special effects and considering the Tudor toilet facilities in the octagonal representation of Sheakespeare's theatre. **Height 3m**

Victorian Crystal Palace

Early prefabrication is explored as pupils work individually, in teams and altogether, to piece together their built sections to form a single enclosure. Pupils stroll through the structure as Victorians and imagine the wonders on exhibition. **Height 4m**

Viking Longship; 90 minutes with 30 pupils

Pupils work individually, in teams and altogether to construct a Longship 12m in length, large enough for the whole group to sit in and navigate a passage to north America, as the Vikings did, trying to avoid the icebergs with their oars.

World War Two; 90 minutes with 30 pupils

Andersen Shelters: Pupils build models of the iconic Andersen shelter in small teams, Which will survive the blitz? **Height 1.5m**

Humanities Workshops 120 minutes with up to 45 pupils

Key Elements; Cooperation; DT; Imagination; Listening; Maths; Motor Skills, Teamwork

Black History; *Empire Windrush*

To celebrate Black History Month we have devised a model of the 1930's German Cruise ship turned troop carrier and seized by the British as WW2 reparations. Pupils work individually and in groups to build a 12 - 15m long structure, including funnels! **Height 3m**

Christian Architecture; *Ely Cathedral* 120 minutes

Working individually, in teams and altogether, pupils learn about European Christian Architecture in the middle ages through the construction of a classical structure representing Ely Cathedral in Cambridgeshire England. **Height 4m**

Indian Architecture; *Taj Mahal* 120 minutes

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. Pupils work individually, in teams and altogether to construct an amazing model **Height 4m**

Islamic Architecture; *Dome Of The Rock* 120 minutes

Using the Dome of Rock in Jerusalem as the key example of an Islamic place of worship, Pupils work individually, in teams and altogether to construct a model of The Dome of Rock, the oldest surviving example of Islamic architecture still in use today. **Height 4m**

KEY STAGE TWO WORKSHOPS - STEM & STEAM WORKSHOPS

Focused on investigation, disassembly and evaluation as design and make assignments. Using all STEAM related disciplines, Science, (Design) Technology, Engineering, Art and Mathematics these workshops are designed to stimulate pupil's imagination, interpretative and visual problem solving skills helping to develop their higher order thinking. These workshops are often run as year group or inter-school competitions by regular clients.

Key Elements; Cooperation; DT; Imagination; Listening; Maths; Motor Skills, Resilience; Science; Teamwork

STEM Workshops

Fairgrounds;

Three of the most popular fairground attractions explored through creative hand-on building. Pupils work individually, in teams and altogether to build on e ofthes structures in your school hall. The Ferris Wheel actually rotates! Please specify which fairground ride you require when booking **Height 4 - 6 m**

Ferris Wheel; 60 / 90 minutes with 30 pupils or 120 minutes with 45 pupils

Helter Skelter; 120 minutes with 45 pupils

Roller Coaster; 120 minutes with 45 pupils

Geodesic Structures (Eden Project); 60 or 120 minutes with 30 upper KS2 pupils

The use geometric shapes are explored and the ideas of Buckminster Fuller introduced in this exploratory workshop. Pupils are introduced to the possibilities of constructing geodesic domes for habitation and thereby questioning our reliance on traditional materials. **Height 4m**

Millennium Dome; 120 minutes with 45 pupils

Pupils work individually, in teams and altogether to build a model of the iconic dome steel tensile structure is recreated in your school hall, using just sticks, rubber bands and string. **Height 4 m**

Millennium Bridges; *London & York* 120 minutes with 45 pupils

The iconic suspended 'Wobbly Bridge' recreated in your school hall up to 12m long or built alongside the less infamous York suspension footbridge for comparison

Octas; 60 minutes with 30 pupils

Pupils are shown how to make Octahedrons from triangles and in groups use them to make towers up to 8m tall and a tunnel they can walk through. **Height up to 8m**

Stadium Structures; 120 minutes with 45 pupils

Based Old Trafford (Manchester United) OR The Emirates (Arsenal) stadiums, pupils work together to build sections that are then constructed into the roof structure of one large stadium model. **Height 3 m**

Tetra; 60 minutes with 30 pupils

Each pupils builds 2 small tetrahedrons, which are connected to 2 others to form a Big tetrahedron. These are in turn connected to 3 other Big tetrahedrons to form Large tetrahedrons which are connected to make one Huge tetrahedron. **Height 3m**

STEAM Workshops

Art & Sculpture; 120 minutes with 35 Upper KS2 pupils

Pupils explore movement, balance, and composition during in the sculpture making process. They consider and discuss details of selected artists work, learning to evaluate their work and appreciate the perceptions of others. **Height 2-4 m**

Bridges, Maths and Design; 120 minutes with 45 or

90 minutes with 30 pupils

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

Habitat & Shelter; 120 minutes with 45 pupils

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: **Height 2-3 m**

Mega Maths Structures / Sculptures; 120 minutes with 45 pupils

Use as part of your own school project to encourage pupils to pursue their own creativity and imagination. The workshops concludes with pupils evaluating their work, aided by our presenter. **Height 2-4 m**

Abstraction: Pupils build to any theme. e.g. Dinosaurs; Figures; Sea Life; Space; Transport;

Sense Of Place: Pupils interpret their local environment, either town or school.

Olympic / Sport Sculptures; 120 minutes with 45 pupils

Pupils are asked to design and build simple stylised sculptures which represent sporting event as 3D iconography. An understanding of the nature of abstract art is desirable. **Height 2-4 m**

Skyscrapers; 120 minutes with 45 or 90 minutes with 30 pupils

Pupils 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. **Height 6-8 m**



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