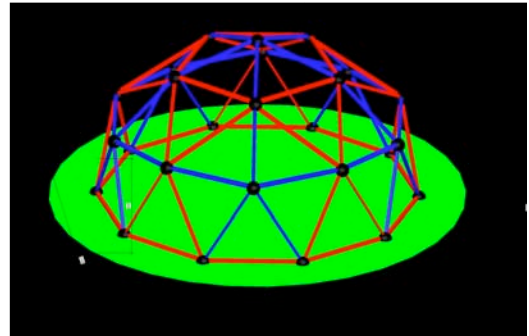


Infinite Arts: Geodesic dome building: Secondary

Who will run it?

Infinite Arts is based in Sunderland and successfully leads workshops in schools locally and regionally making kites, banners, sand sculpture, carnival structures, bridges andDOMES. The session is usually run by artist Pauline Taylor or architect Ged McCormack.



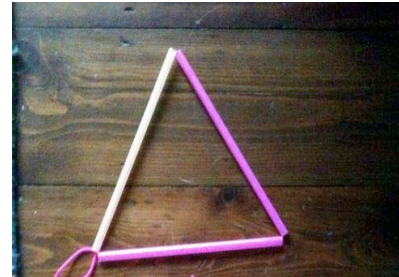
Who can take part?

This full day or half day dome building workshop is designed for a Y7 or Y8 class (with 25-30 pupils we would make 2 domes large enough for pupils to get inside).

Aims of the Geodesic dome building day:

To learn about Geodesic domes and the power of the triangle
To work together to make a large scale dome

Learning objectives: maths, problem solving, team work, planning, organisation



How will we do it? – full day session

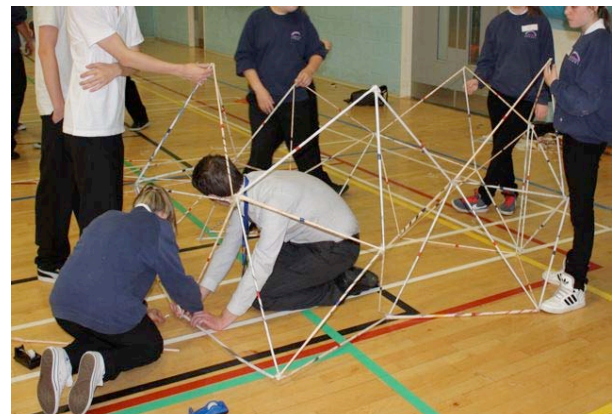
- Experimentation with straws and sticks to make rigid flat shapes triangles, squares, pentagons and hexagons
- Learn how to make a sheet of newspaper into a strong strut for dome building.
- Discuss, evaluate and plan
- Make several large domes using the newspaper struts
- Use maths to calculate the perimeter and perhaps surface area of the dome
- Work together to decorate and enclose the finished dome



This workshop is designed to take place in your school preferably in a hall or very large room. It's not a messy activity – just paper and sticky tape. Ideally it will take place over a full day covering all aspects as shown above for one class of 25-30. A reduced version of the workshop can be achieved in a half day session if the school can do the preparation and the follow up work and we simply cover the dome construction.



At the end of the session we aim to have a final circle to discuss what we have done and recap on findings. Each team will present their dome to the rest of the group and will be asked about the experience: What went well, what could be improved, what next? They will be encouraged to think and talk about teamwork and the process of building in the real world.



Materials

We will provide all the materials and equipment you need.

Please contact us at info@infinitearts.co.uk to find out more and to book a session