

Get Plastered!

Caption: Locked down with the kids? get plastered! elementary form finding for the future Heinz Isler.

What you will need:

- Cloth or some old clothes
- Plaster of Paris (you can get this from most craft shops)
- Scissors
- A bowl
- A small piece of wood

Instructions:

The static physics of flexible objects hanging in tension can tell you how things can stand up in compression. Antonio Gaudi, a famous Spanish architect from the 1900s used a hanging chain model to work out the shape of his most famous work, Sagrada Familia.

Learn about static form by soaking pieces of cloth in Plaster and then hanging them upside down to cure, then turning them the right way up.

Lead photo:



Instruction photos:





Stories and Storeys

Caption: How many storeys of stories? How high can you go? Give your child fluency in static equilibrium.

What you will need:

- Stiff books
- Coloured pencils
- Blue tac

Instructions:

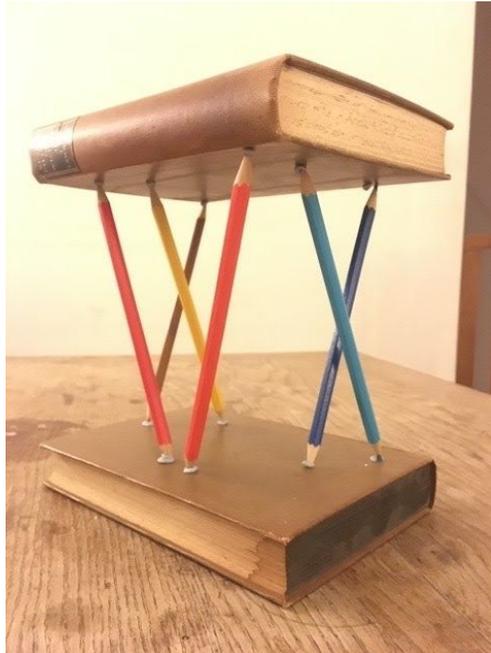
Try different pencil arrangements to build a tower of books.

Experiment with different arrangements of pencils and configurations.

Lead image:



Instruction photos:



About Webb Yates Engineers



Webb Yates Engineers is a 60-strong multidisciplinary engineering practice comprising structural, civil, mechanical, electrical, and public health engineers, architects, and energy and carbon consultants.

With offices in London, Birmingham and Bristol, we work with a diverse range of design teams and clients to realise intelligent and adventurous projects of all scales.

We have won numerous competitions and awards for our work including IStructE Structural Awards, Civic Trust and RIBA awards, and an RIBA Stirling Prize nomination. During 2018 we won Construction News' Award for Construction Consultant of the Year and Building Magazine's Award for Engineering Consultant of the Year.

In light of the severity of the climate emergency and huge contribution of the built environment to carbon emissions and other environmental indicators, we have signed the Construction Declares pledges. We will always offer environmentally conscientious solutions and where appropriate alternative options. We offer services dedicated to bringing the built environment in line with planetary limits.

Central to our philosophy is an enjoyment of the collaborative creative process. It is this desire for unbounded collaboration, together with the broad-ranging interests of the team that has cultivated our multidisciplinary offer.

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