

Skill level: Literally everyone can (and should) do this. Together.

Pavilions, Pop Ups & Temporary Structures

Is architecture meant to last forever?

Written & designed for RIBA
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Some buildings are designed and built to stand the test of time. Some are designed and built to last for just a few days, weeks or years. But why?

Why would an architect design a building that isn't going to last?
And do you know what the differences are between pavilions and dens?

Find Out!

Do you know what these words mean?
Can you find out? (try google!) Write down
the different meanings in the space here:

Portable

Pop Up

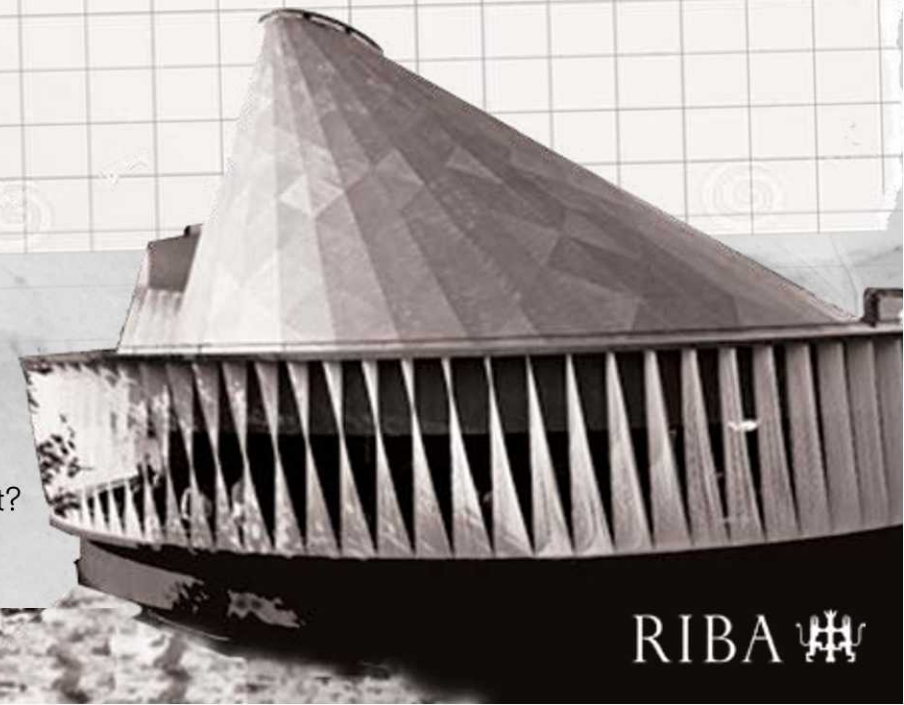
Temporary

Permanent

Pavilion

Den

Which one of these buildings do you think is a temporary structure? Why do you think that?



Talk...

What is the oldest building you can think of?

The Pyramids in Egypt?

The Parthenon in Greece?

Machu Picchu in Peru?

Your house?

Somewhere totally different?

What sorts of materials do you think really old buildings are made from? How have they lasted so long?

What is 'temporary'? How long do temporary structures actually last?

Can you think of any examples of temporary architecture? What about,

The Millennium Dome?

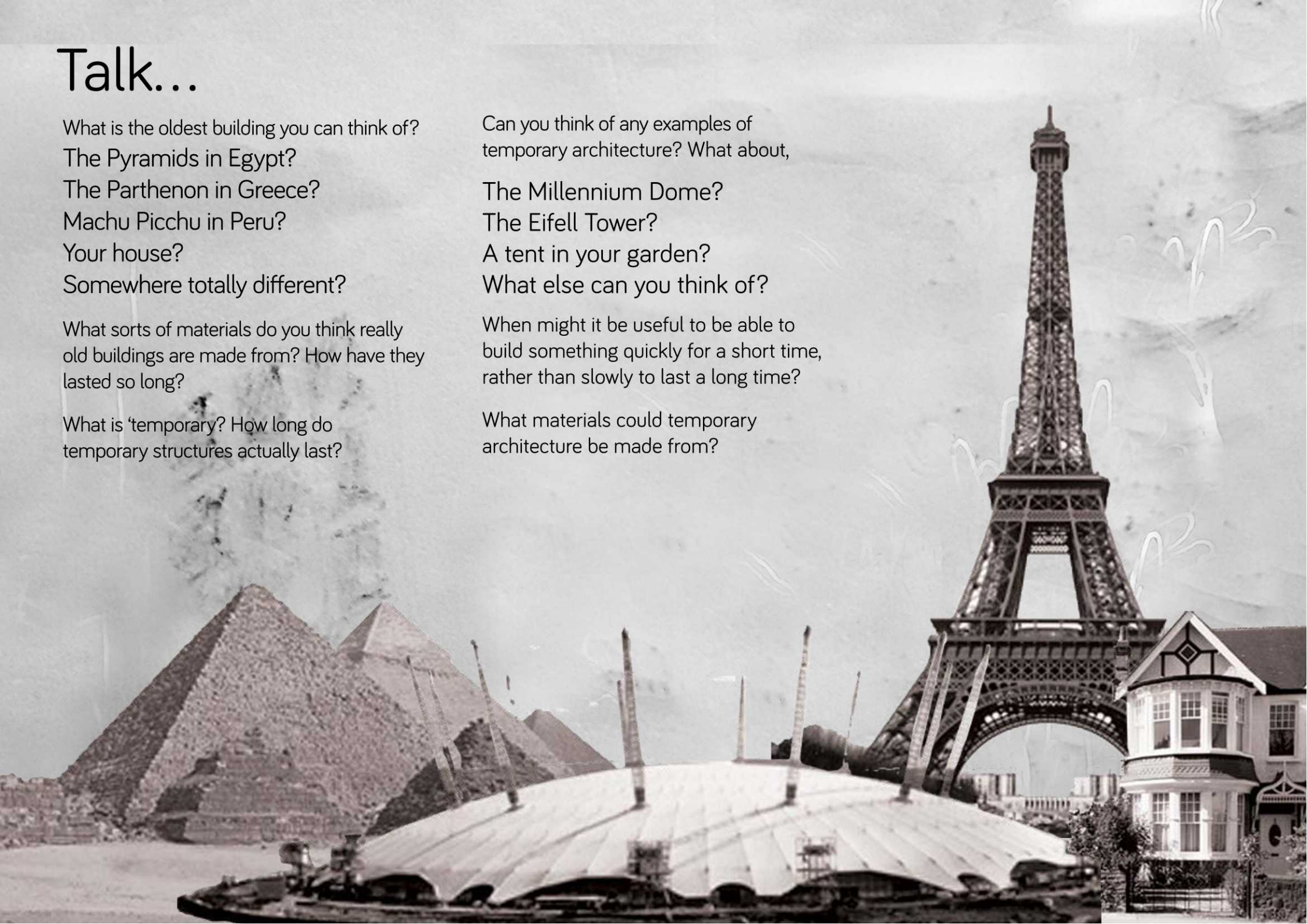
The Eiffel Tower?

A tent in your garden?

What else can you think of?

When might it be useful to be able to build something quickly for a short time, rather than slowly to last a long time?

What materials could temporary architecture be made from?



3D shapes

On this page you can see some shapes.
What are they?

The 'D' in 2D & 3D stands for 'dimensions'.
A 2D object is flat. It has one dimension going across, and one going down (length & width). A 3D object has a third dimension, which also gives it depth.

Some names for 3D shapes are:

CUBOID

SPHERE

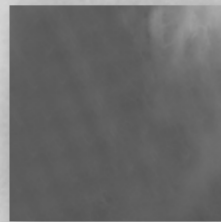
CONE

CYLINDER

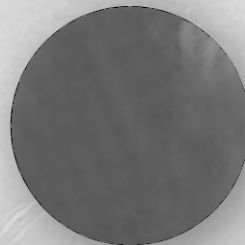
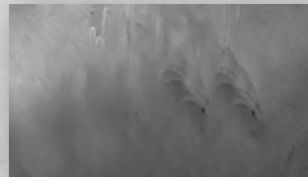
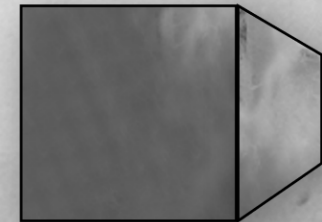
SQUARE-BASED-PYRAMID

Can you find any of these 3D shapes around your house?

In the spaces beside the shapes can you write and draw a 3D version of these shapes? We've started you off...



Square - Cube



What kind of
2D shape makes
a HEMISPHERE?

3D shapes (continued)

You will need

paper, pencil, sticky tape
glue, scissors

Let's get creative!

Can you use your paper, tape, glue &
scissors and create a 3D model of each
of the shapes you drew?

This is really good practice.

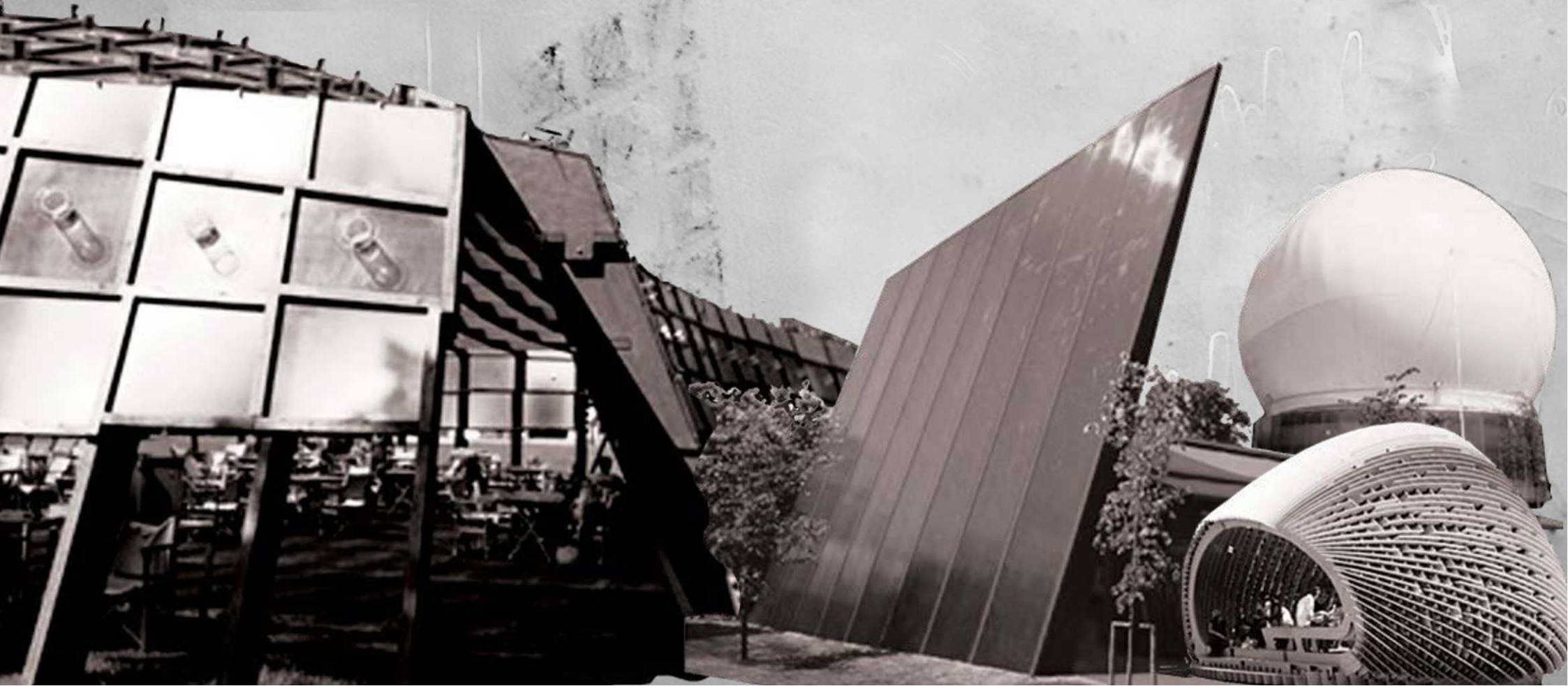


Pavilions

Check out these pavilions!

The word pavilion can be confusing because it has more than one meaning. A pavilion can be a temporary structure, built for leisure or shelter. It can be an annex, or add-on to a larger building, or it can be one of a group of buildings, all standing together.

There are 4 pavilions all mashed up together here - can you see where one ends and the next begins?
What shapes can you see in the pavilions? What do you think these pavilions are used for?



Carry on...

What's happened here then? It looks like this pavilion is missing some bits. Please would you be so kind as to draw what you think should happen in the middle? How will you connect the two sides together? What about a tree house - or a windmill - or a slide (or all of those)? You can be as imaginative as you like! What materials would you use to make your new design?



Design

You will need

paper, pencil, sticky tape
glue, scissors
old newspapers or magazines

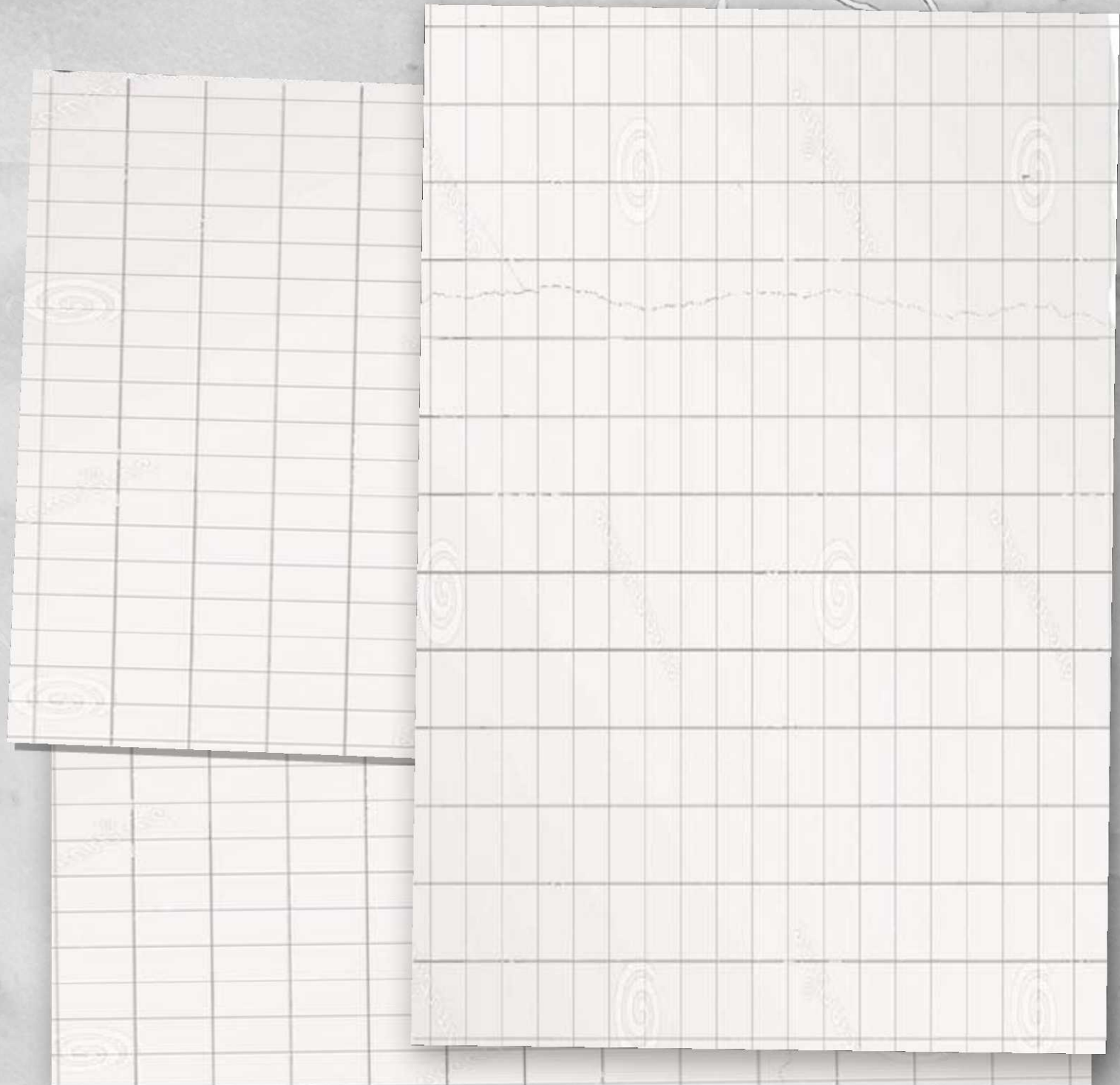
You are now well practiced
at design. Here is your next brief:

Imagine: The whole world is
threatened by a serious medical
emergency, and you are not
allowed out of the house for
weeks. You're going to need
a space made just for you....

Pop-up Architecture is an opportunity
to create an original, individual space
wherever it is needed!

Use all of the materials you have to
create the best design EVER for a
pop up structure.

You could start by drawing or cutting
& sticking 3 different shapes and
then joining them together....



Make a model

Suggested materials

card or cardboard, pencil, sticky tape, glue, string scissors, wooden BBQ skewers, materials with different textures, such as sandpaper or dishscrubbers

Building a model helps us to understand our designs, in a different way and in an extra dimension. It is a way to test out different ways to make a human-sized building, and think through any problems that we might not have even realised were there!

Making models is also a great way to learn about the ways different materials can work together. Are your materials: strong? beautiful? brittle? soft? bendy? How do they feel to touch? What would a building look like if was made out of them? What is the best use, or function for them?

To make a model, we need to think in
3 DIMENSIONS!



Scale Up: POP!

Pop-up Architecture is an opportunity to create an original, individual space wherever it is needed.

You have a design...a model... What are you waiting for?
Can you adapt (change) your structure a little to make it big enough for you to fit inside? You could do it in your house, or in your garden... What could you use?

Some very useful materials are:

Rugs or sheets, garden canes, string or washing line, parcel tape, clothes pegs, chairs or a garden bench, marathon blankets or tinfoil, snacks (always very important)

But you can use whatever you have - as long as you have permission!

Don't forget: When your Pop Up structure is made, don't forget to make it beautiful! What things could you add to your Pop Up to change the way it looks? How about... flags, bunting or fairy lights?

We want to see! Share your creations with us

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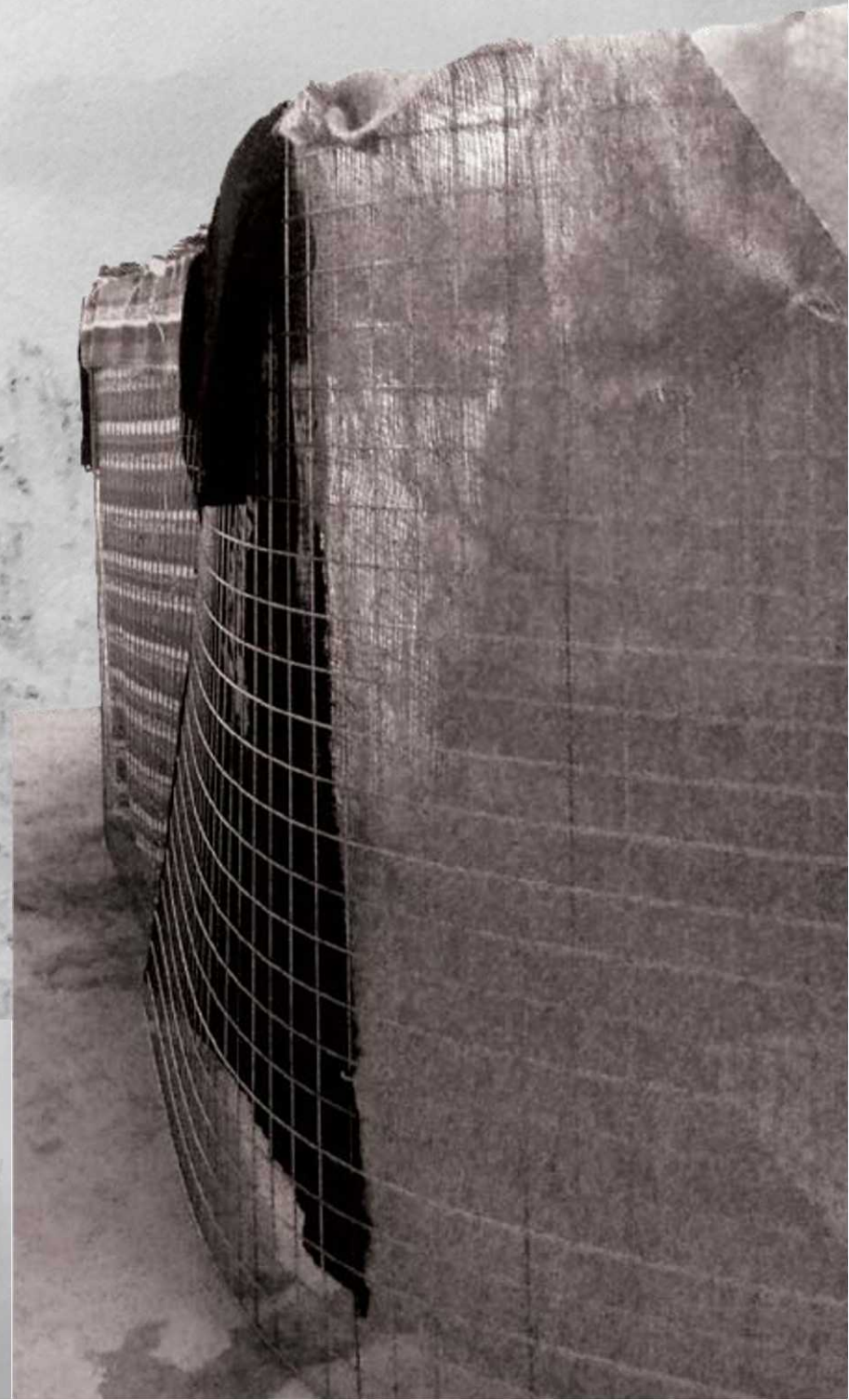


Image credits

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Page 1

Parthenon, Acropolis, Athens, seen from the northwest
Bernard Cox / RIBA Collections
RIBA3779

Tetra Sheds, Clerkenwell, London: detail of a window
Joanne Underhill / RIBA Collections
RIBA92341

Page 2 (L-R)

Pyramids of Mycerinus (Menkaure), Chephren (Khafre) and Cheops (Khufu) with photographer's camera set up in the desert in front of them, Giza
RIBA Collections
RIBA13825

Millennium Dome, Greenwich, London
Janet Hall / RIBA Collections
RIBA6066

Eiffel Tower, Paris
Tim Benton / RIBA Collections
RIBA90372

Semi-detached houses, Victoria Avenue, Finchley, London
Janet Hall / RIBA Collections
RIBA6059

Page 5 (L-R)

Serpentine Gallery Pavilion 2005, Hyde Park, London
RIBA Collections
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Serpentine Gallery Pavilion 2010, Hyde Park, London
Christopher Hope-Fitch / RIBA Collections
RIBA54205

[C] Space - DRL 10 Pavilion, Bedford Square, Bloomsbury, London
Christopher Hope-Fitch / RIBA Collections
RIBA34719

Serpentine Gallery Pavilion 2006, Hyde Park, London
Valeria Carullo / RIBA Collections
RIBA53267

Page 6

Serpentine Gallery Pavilion 2008, Hyde Park, London: the roof structure
Luke Palmer / RIBA Collections
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Den,, (detail) 2013
Zoe Allen