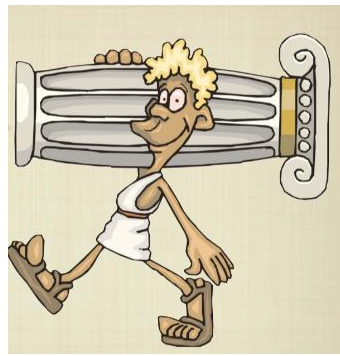
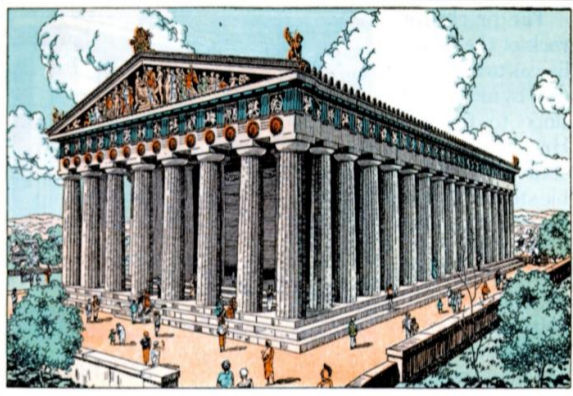


## Greek week

### Design Technology column challenges

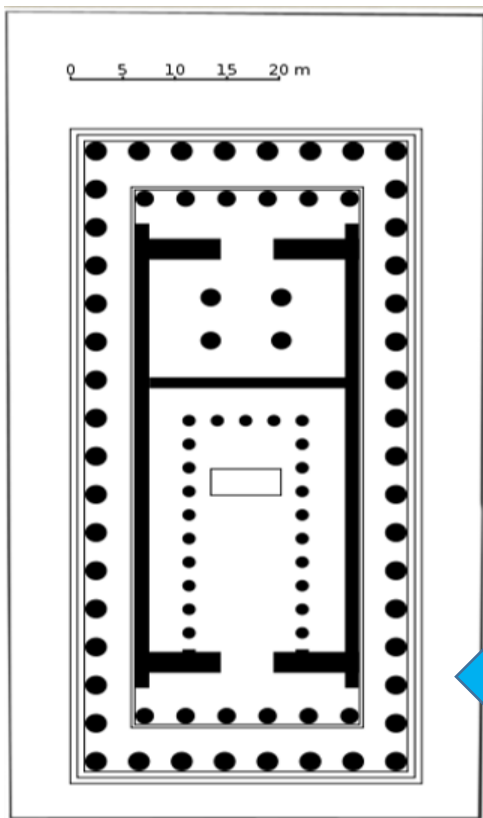


Have you ever  
heard of The  
Parthenon?



THE PARTHENON WAS  
A TEMPLE TO THE  
GODDESS ATHENA. IT  
STANDS ON TOP OF  
THE ACROPOLIS  
WHICH IS A HILL  
OVERLOOKING THE  
CITY OF ATHENS.

IT WAS BUILT BETWEEN 447BC AND 438BC. THE REMAINS OF  
THE PARTHENON CAN STILL BE SEEN TODAY AND ARE  
CONSIDERED TO BE ONE OF THE MOST IMPORTANT  
REMAINING MONUMENTS OF ANCIENT GREECE.



This is a floor plan of The  
Parthenon.

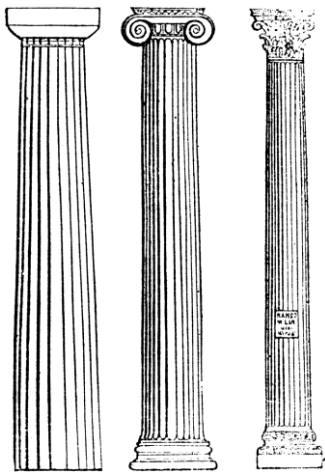
How many columns does it have  
around the outside?



This is what The Parthenon would have looked like when it was first built. If you had to make a model of the Parthenon, how would you do it?

What materials would you use?

How would you join the different parts?



The columns of The Parthenon had to be strong enough to support the roof. If you were to make the columns out of paper or card, how could you strengthen them so they would be sturdy?

### Your Tasks

You do not have to complete all of these tasks. Start with challenge 1 then move on to challenge 2 then 3 etc. See how far you get.

In total there are seven challenges, the final one is to create a model of the Parthenon out of card and paper. Some of you may want to complete all seven challenges but this is optional.

You can collect house points for each challenge you manage to complete.

To claim your house points send us your photos.

Please send any photos to our twitter link; we would love to see how far you get with this Design technology task.

## Challenge record sheet

Here is your challenge record sheet. You can either print out a copy or copy it out onto a sheet of paper.

Your task over the next two days is to complete as many challenges from the sheet as you can. Make sure you complete them in the correct order. Start with challenge 1 and finish it before moving onto challenge 2 and so on...

Tick them off as you complete them. You can collect housepoints as you go along!

DT GREEK WEEK CHALLENGE RECORD SHEET- COLUMNS AND PARTHENON

Total number of House points achieved at end of challenge ..... out of a total of 34

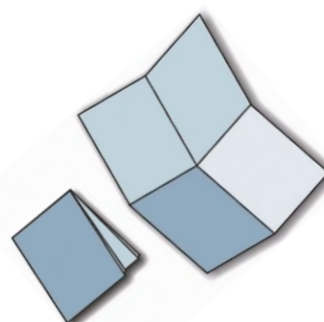
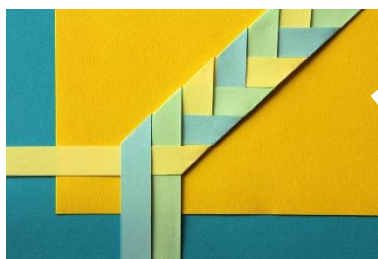
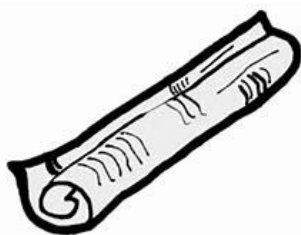
	Challenge 1	Challenge 2	Challenge 3	Challenge 4	Challenge 5	Challenge 6	FINAL CHALLENGE
	4 columns out of <u>folded</u> paper	4 columns out of <u>rolled</u> paper	Triangular prism net for Parthenon roof	4 straws stand up straight on their own	4 columns <u>NOT</u> made out of paper or card (foil or straws)	Create a set of paper or card steps	Make your Parthenon
Do the columns stand independently?							
Do the columns support a small book?							
HOUSE POINTS AWARDED ONCE CHALLENGE COMPLETED	2	3	4	4	5	6	10

You are going to investigate different ways of strengthening various materials that you should have around home. So you will need scrap paper and card and anything you have that you can use to stick them together such as glue and sellotape.



There are lots of different ways of strengthening paper and card:

Twisting, rolling, folding, plaiting, doubling it etc.





How can you keep your columns upright?

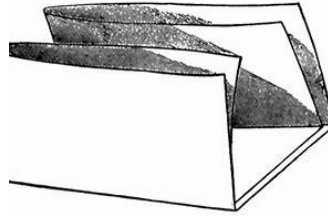
How can you make sure the columns are sturdy?



## Challenges

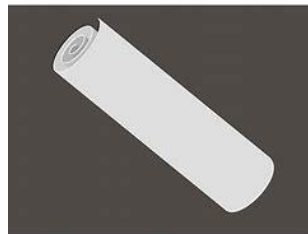
### Challenge 1

Can you create 4 columns out of folded paper or card that will support a small book?



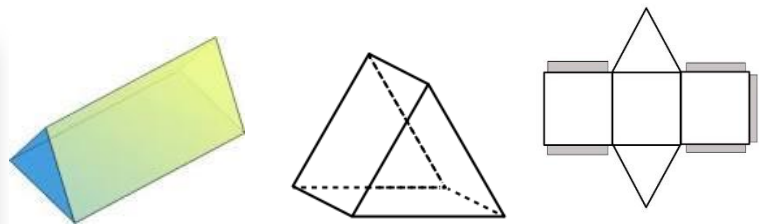
### Challenge 2

Can you create 4 columns out of rolled paper or card that will support a small book?



### Challenge 3

Can you create a net (flat shape) that will form a 3D shape (a triangular prism)?



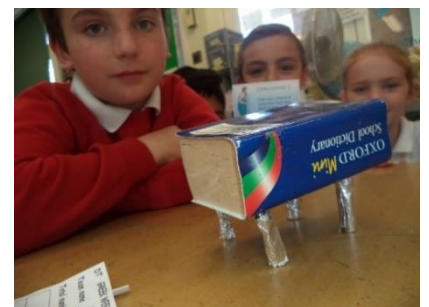
### Challenge 4

Can you make 4 straws stand up straight so they won't fall over? (you can make your own straws out of rolled paper.)



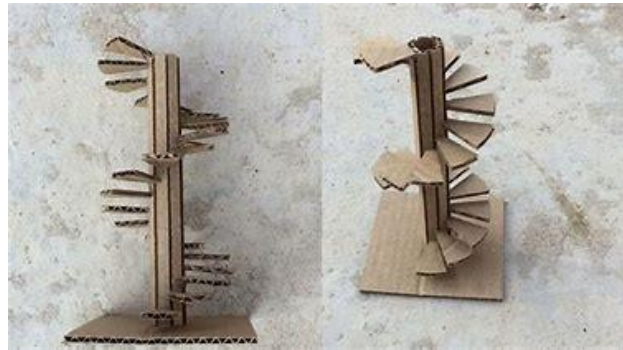
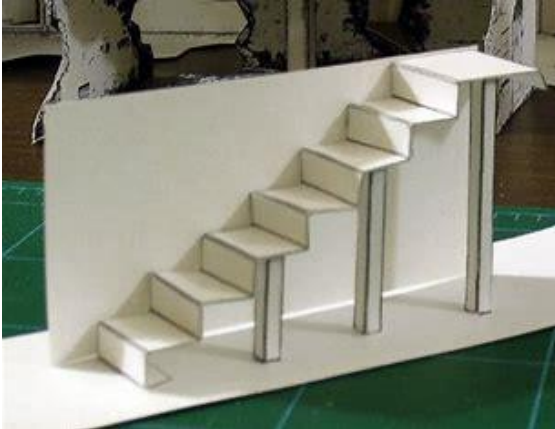
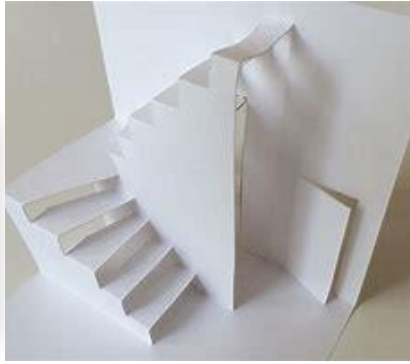
### Challenge 5

Can you create 4 columns out of paper that are **not** made out of paper or card? (eg foil, cling film, straws etc)



## Challenge 6

Can you create a set of paper or card steps?



## Final challenge

Make a model Parthenon out of scrap paper and card.



There are lots of things you will need to think about before creating your Parthenon model.

What will you use for the base?

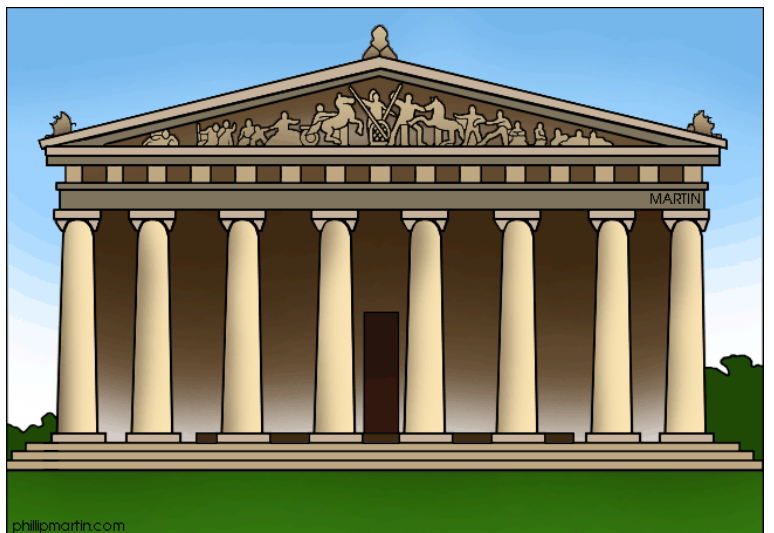
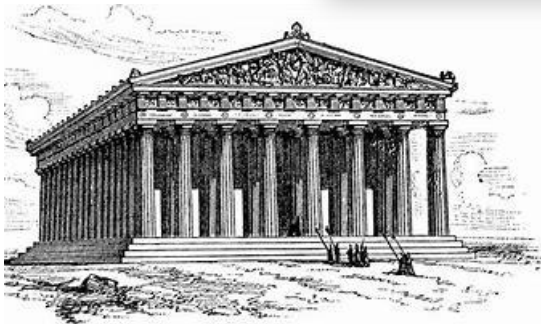
How will you make the roof?

How will you decorate your finished model?



What will you use to join the columns to the base and roof?

How will you make the steps?



**Make sure you tweet your photos.**

**We can't wait to see what you do!**



# DT GREEK WEEK CHALLENGE RECORD SHEET - COLUMNS AND PARTHENON

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