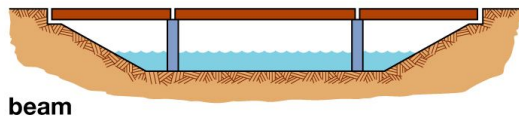


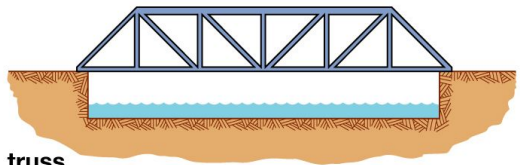
## Science Week 2023

### Shepherds Class (Teacher-led Session)

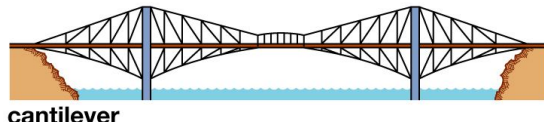
#### Building Bridges



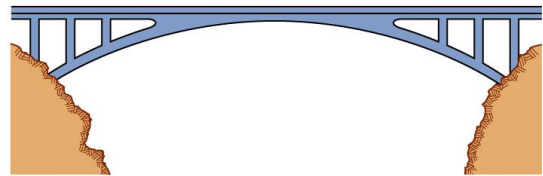
beam



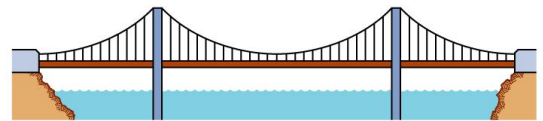
truss



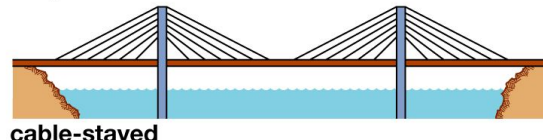
cantilever



arch



suspension



cable-stayed

© Encyclopædia Britannica, Inc.

Each team had six sheets of card and a role of sticky tape.

All that they had to do was to make a short bridge that could withstand the weight of a 1 litre bottle of squash (i.e. a mass of 1kg).

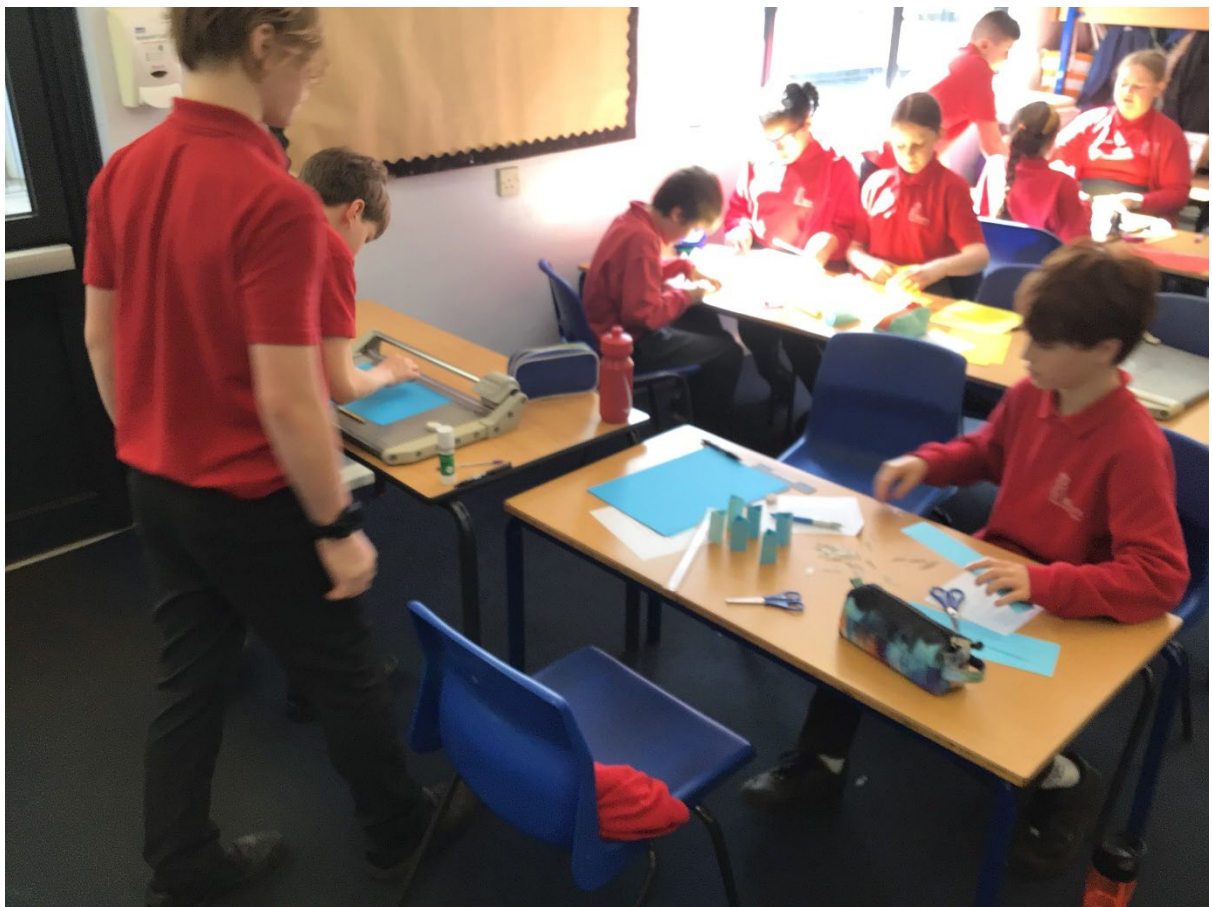
They could use any number of paper clips to assist the construction of their bridges.

They were given an important hint: mark out any sections of your bridge accurately with pencil and ruler...and THINK TRIANGLES!!!

They had 30 minutes to complete the task...plus ten minutes "extra time"!







	Efficient use of resources /5	Team effort? /5	Rigidity 0.5kg can /5	Rigidity 1kg bottle /5
Team: "You smell nice"	3	4	3	0
Team: "Are we nearly there?"	4	3	4	4
Team: "I don't shave yet!"	4	3	3	0
Team: "It's not my fault!"	3	3	2	0

With an overall score of 15/20, Team "Are We Nearly There?" won the bridge-building competition.

A great deal of fun was had by all.

L Williams

March 2023