

Back to paper again

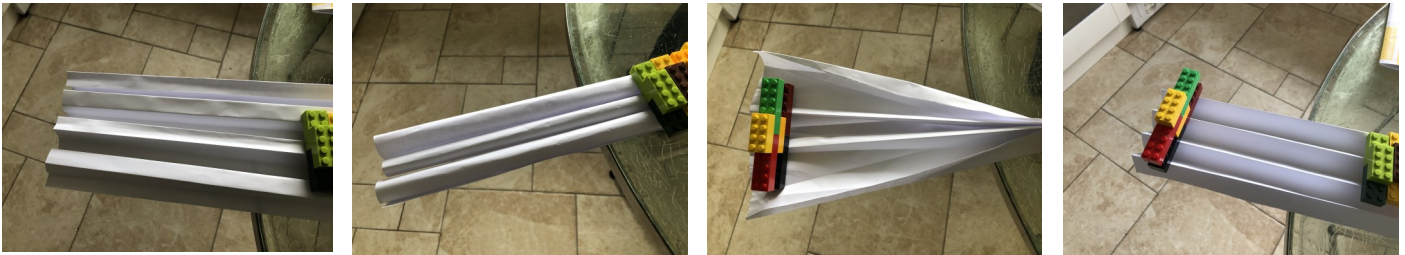
This challenge is to build a cantilevered bridge and see how much it can support before it collapses.

This is destruct testing!

Make some structures using sheets of A4 paper. So you could fold one sheet into zig zags, fold another into rolls, fold a third into a box section and a fourth into a combination of these. You can use a bit of Sellotape to make the structures.

Look at the structures you have made and predict which one will be the strongest. (You might be wrong!)

Hold on the edge of a table. Load the unsupported end with lego, and see how many pieces of lego each shape can support before buckling.



Guess which shape I made that lasted the longest (you will have to ask me in class).

What are the factors involved in the collapse?

Is it the accuracy of the folds and manufacture of the shapes?

Is it how strongly they are secured to the table?

Is it the basic shape?

Or is it a combination of these factors?