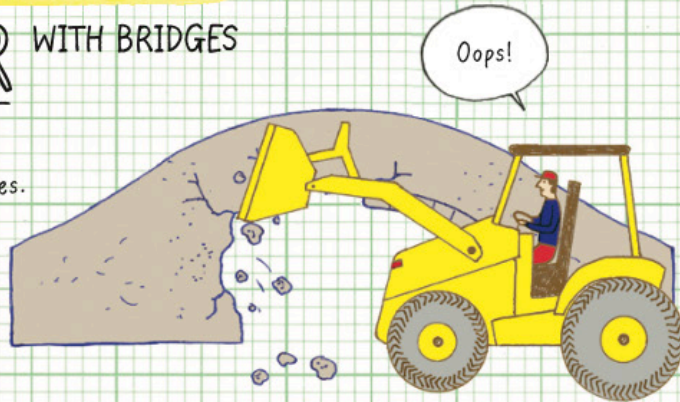




Buildings / No. 3 of 3

TINKER WITH BRIDGES

Have a go at messing around with some bridges.

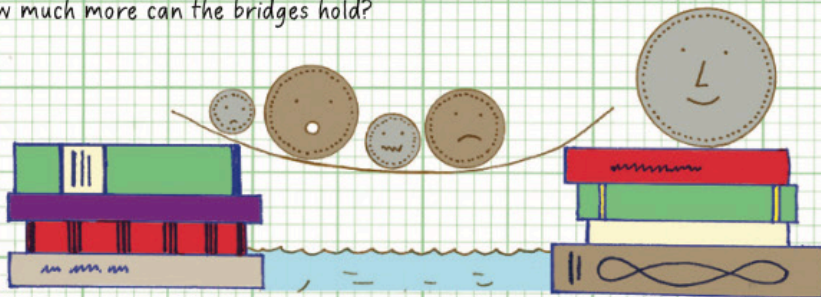


Not REAL bridges of course! Even if you somehow got hold of the cranes and diggers and whatever else you needed to reshape and rebuild some real bridges, it would be illegal. So let's stick to paper, for now.

DO THIS!

Your challenge is to tinker with different bridge designs to test which one is the strongest. Go to page 77 to find the designs.

- 1st Place 2 even stacks of books about 15cm apart.
- 2nd Fold the 3 pieces of paper from pages 78-82 as instructed.
- 3rd One at a time, place each paper bridge on top of the book stacks so it spans the distance between them.
- 4th Test how strong each bridge is by placing 1 penny coins on the deck of the bridge (the bit you walk on) until it collapses. The bridge that holds the most coins is the strongest.
- 5th Test them again with the books only 5cm apart. How much more can the bridges hold?



DO THIS!

Document your findings: Which bridge WINS?!

Bridge structure	££££ on 15cm span	££££ on 5cm span
Folded 		
Tray 		
Triangle 		



INGENIOUS INVENTIONS

A suspension bridge is a type of bridge where the deck is hung from cables. The cables are suspended between towers and anchored at each end of the bridge. The longest suspension bridge in the world is the Akashi-Kaikyo Bridge in Japan. The middle span is 1,991m.

