SPAGHETTI BRIDGES

ENGINEERING 03

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The brief

Construct a free standing bridge out of spaghetti, strong enough to support a 250g bag of sugar.

The method

Think about bracing strands together for strength.

Some shapes are better at absorbing loads —
triangles are particularly strong. Rubber bands
make for good junctions.

Top tip

Be patient. Through trial and error, you'll become proficient at working with spaghetti.

Materials

Spaghetti Small rubber bands or bag ties Sticky tape 250g bag of sugar

How does it work?

Bridges monage two important forces: compression and tension – pushing and pulling. Too much of either and they buckle or snop.

