Crane Construction Challenge



The Task

• Design and make a beam for a crane. Your beam must be at least 60 cm long.



• How many baked bean tins will it lift?

The Cambridge Skyline



Tube Production Line



Person 1: The sticker



Person 3: The puncher



Person 2: The roller

Person 4: The chief engineer

A Busy Construction Site

Why don't they fall over?

All tower cranes have

- Large counter weights
- Large concrete base
- Tower and beam are made from triangles. This is called a TRUSS

Large Concrete Base

The Counter Balance!

Use Triangles

Spot the Triangles

Where to start?

• Where should you brace the structure?

Erecting a crane!

Erecting a crane!

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