

# Build it full size

## engineering

**What you need:** group sketch and Design Brief from earlier in this project · half-size test notes or prior investigation record from earlier in this project (if available) · card sheets (plain and corrugated) · plain paper · lolly sticks · wooden dowels (short lengths) · sticky tape · PVA glue (optional, non-load parts only) · split pins · string · scissors · real load for the build (few books, tablet, one light coat, or light weights)

### Words to use

Load-carrying shape · Strong join · Fix by changing shape or join

### Our question

When our full-size build weakens under load, which idea (shape or join) strengthens it?

I predict...because...

### What we built

### What sagged

### Which idea fixed it

### What failed first?

### Which idea fixed it?

### What evidence shows the change helped?

