

Prototype Evaluation

Load it, improve it, load it again

engineering

What you need: group load-bearing prototypes from earlier in this project · real load for the job (library books, tablet, coats) or a tub of 1c coins and small weights · bucket and string for hanging loads · spare card and corrugated card offcuts (for triangular braces, gussets, wider feet) · lolly sticks · sticky tape · PVA glue (only for joins already fully dry from an earlier lesson — not for today's timed tweak) · split pins · scissors · Investigation Journal page

Words to use

Load test · Measured improvement · Peer feedback

The problem

Our build has a weakest shape or join that limited the load it held.

Load held before and after one change (in load units)

Group	Change	Before	After

Draw a bar chart of our results

What we promised it would do

Peer group named a specific weak shape or join · Advice links to a module idea (triangle brace, arch, stronger join, wider feet) · Owners can state the one change they will make

How it did against each one

What we promised	What happened



Lesson 35

What another group noticed



The one thing we changed



How it worked before, and after



Our choice: finish the sentence

We chose _____ because _____.

