

**Design Brief****Choose the job, then test a small version first****engineering**

What you need: card strips and card scraps (plain and corrugated) · lolly sticks · sticky tape · split pins · string · scissors · 1c coins or small metal washers · small pot or cup for hanging loads · 30 cm ruler · Investigation Journal Design Brief page

Words to use

User need · Must-do list · Half-size test

The problem

Someone in our school needs something that can hold a real load safely without tipping, sagging or falling.

Who is it for?

A real person or place in the school (for example the class library, a pupil reading on a tablet, wet coats by the door, or the wet corner of the yard).

Their one real need**What it must do, and must NOT do**

Name a real person or place in the school · The job must hold a real load you can test later · The later build must fit on a desk and use card, sticks, tape, pins or string · A yard bridge is a small classroom model of that need, not a full outdoor span · No building in this step — decide the job and the user only

Risks and limits we noticed**My first ideas — draw and label them**
What I will use



Lesson 33

What failed on the small piece (shape, join or tip)



Two must-dos for the full build, from that failure



We will know it works when...

We can name who it is for and what load it must hold • We can explain the struggle that makes the job worth doing

