Lesson 33

Design Brief

Choose the job, then test a small version first

engineering

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

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

Lesson 33

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