

Design Brief

Design and build the solution

engineering

Words to use

User need • Option test • Prototype model

The problem

Design a stand that holds a class tablet (or a book of the same size) upright and steady on a desk so pupils can film or follow an investigation without it tipping.

Who is it for?

Pupils in our class who need a steady device or book stand on a desk

Their one real need

What it must do, and must NOT do

Use only the flexible build kit provided • Must fit on a standard desk • Must use the base shape that won the option test • Plan only in this step; build comes next • Prefer tape for joins; glue sticks only for light paper-to-paper

Risks and limits we noticed

My first ideas – draw and label them

Check your drawing shows

Sketch one labelled side view of the stand • Label the base, the support, and where the device sits • Tick the materials you will use from the kit list on the board • Tick the class success criteria already on the board • Show the winning base shape from the option test



Lesson 35

What I will use

cardboard and card · lolly sticks · masking tape (default join) · glue sticks (optional, paper-to-paper only) · string · clean recycled boxes or tubs · scissors



We will know it works when...

Holds the tablet or book upright · Stays steady when the desk is lightly bumped · Device or book can go in and out easily · Built from the kit materials only

