

Design Brief

Drawing a design others can build

engineering

What you need: 30 cm ruler · paper or thin card offcuts · masking tape · scissors · blank postcard or photo-sized card · teacher model postcard stand

Words to use

Design sketch · Label · Build note

The problem

Design a simple free-standing stand that holds a postcard upright on a desk

Who is it for?

A classmate who must understand the idea from the drawing alone

Their one real need

What it must do, and must NOT do

Sketch only in this step — do not build yet · A simple folded L-shape or lean-back is a full valid design · Design may only use paper or card and tape when built later · The stand must stand up by itself (free-standing) · The sketch must show parts, materials and rough sizes

Risks and limits we noticed

My first ideas — draw and label them

Check your drawing shows

Sketch a side view of your stand · Label each part · Name the materials · Mark rough sizes in centimetres · Add a short build note about how parts join





Lesson 31

Our measurements, in centimetres



You may use

Investigation Journal page • pencil • ruler • postcard or photo-sized card for size check only



What we will use, and how many



We will know it works when...

Every main part is labelled • Materials are named on the sketch • Rough sizes are marked in centimetres • At least one build note explains a fold or join

