



Design Brief

Sketching and communicating a design

engineering

What you need: 30 cm ruler • Investigation Journal Design Brief page

Words to use

Annotated sketch • Label • Sharing a plan clearly

The problem

Design a simple stand that holds an open reading book upright on a classroom desk so a pupil's hands stay free for writing

Who is it for?

a 5th class pupil who wants to read and take notes at the same time

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

Base no bigger than A5 (about 15 cm by 21 cm) • Must stand on a desk by itself • Label the junk-modelling materials you would use (card, tape, elastic bands, lolly sticks or similar) — no build kit is handed out today • Today's product is a clear annotated sketch, not a finished build • Your stand structure and sizes should differ from the teacher demo

Risks and limits we noticed**My first ideas — draw and label them**



Lesson 30

Check your drawing shows

Sketch the whole stand large enough for labels • Name each main part • Label the material you would use for each main part • Add at least two sizes in centimetres



Our measurements, in centimetres



You may use

Investigation Journal Design Brief page • 30 cm ruler • pencil



What we will use, and how many



We will know it works when...

Every main part is named on the sketch • Each main part has a material label • At least two sizes are written in centimetres • A partner can describe a build order from the page alone

