

Design Brief

Draft and choose a design

engineering

Words to use

Draft · Plan

The problem

Sam keeps losing pencils under the desk. Design a simple holder that keeps pencils tidy on the desk.

Who is it for?

Sam (a classmate who keeps losing pencils)

Their one real need

What it must do, and must NOT do

Use only materials from the sample tray (card, paper, tape, lolly sticks) • Must sit on a desk without help • Plan only today: do not build

Risks and limits we noticed

Our two quick drafts



Lesson 32

My first ideas – draw and label them



Check your drawing shows

Sketch two different ideas quickly • Talk about one good part and one tricky part of each • Circle the idea you choose • Look at the tray, then draw a clearer plan and label the parts (base, side, opening) and what you will build with



What I will use

card scraps • paper • masking tape • lolly sticks • coloured pencils



We will know it works when...

Drew two quick draft ideas • Said one good part and one tricky part before choosing • Drew a labelled plan of the chosen idea • Named at least two materials from the tray on the plan

