

Hope Academy – L2 Engineering Design

Friday 14th February – NEA task RO39 Developed idea



HOPE

AMBITION

COURAGE

RESPECT

Demonstrate:

Task – You have until the end of this week to complete a developed final design idea for a Desk Tidy to be used in a Primary School.

First lesson today for Task 2 RO39 – Developed design idea:

Priority! – You have seen your January 2025 grade out of a possible 12 marks.

Marking Criteria			Teacher Comments	Mark	Page No.
Task 2 – Topic Area 1: Manual production of freehand sketches – Design Development			Samuel's developed drawing is adequately sketched and is detailed with some features of the design proposal that considers the design specification		In task 2 folder
MB1: 1 - 4 marks	MB2: 5 - 8 marks	MB3: 9- 12 marks			
Produces a basic freehand sketch of design proposal. Brief explanation of the key features of a design proposal with limited annotation. Limited consideration of the design specification. [1 2 3 4]	Produces adequate freehand sketches of design proposal. Adequate explanation of the key features of a design proposal with some annotation. Some consideration of the design specification. [5 6 7 8]	Produces comprehensive freehand sketches of design proposal. Detailed explanation of the key features of a design proposal that is fully annotated. Fully considers the design specification. [9 10 11 12]			
				4/12	

REMEMBER! – This desk tidy has to hold Colouring pencils, Rulers, Highlighters and Glue sticks

MB3: 9- 12 marks

Produces **comprehensive** freehand sketches of design proposal.

Detailed explanation of the key features of a design proposal that is **fully** annotated.

Fully considers the design specification.

[9 10 11 12]

REMEMBER! – Mark Band 3 Design criteria **MUST** be Comprehensive, Detailed and Fully considers the design Specification

Demonstrate:

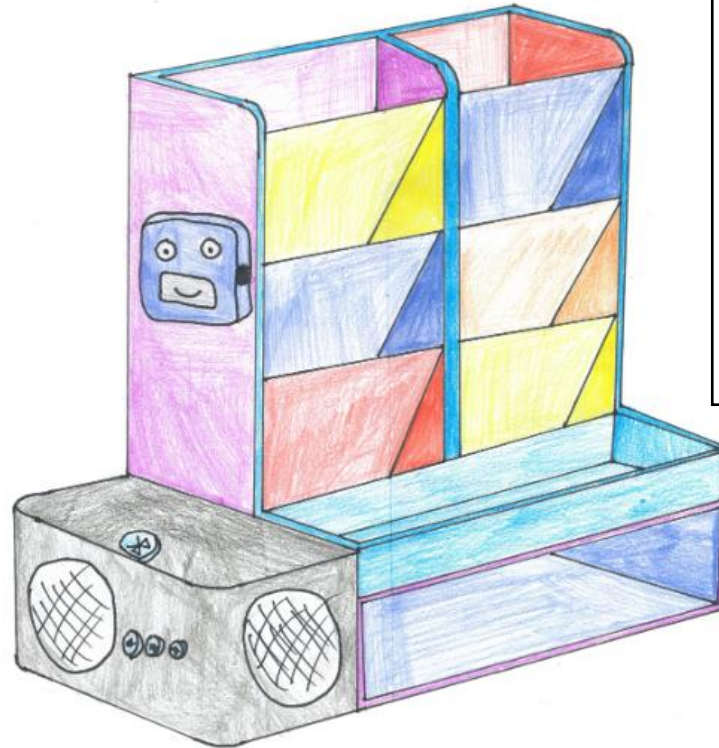
Task – What is potentially wrong with this developed design idea for a Desk Tidy?

Task 2 – Manual Production of Freehand Sketches – Design Development

The Primary School Desk Tidy should:

- be constructed from a suitably robust material
- have a flat stable base
- be able to hold equipment for a table of four students
- be sized to hold a range of different school desk equipment, such as colouring pencils, glue sticks, rulers and highlighter pens
- allow students to safely and easily take items out
- be aesthetically pleasing and visually interesting
- be able to be batch produced
- be able to be recycled when it has reached the end of its life.

I chose to improve my 3rd design as it is best suited for young students on a table due to its large capacity and not much room taken.



Improvements I made was:

- Adding a range of different colors to improve visual aspects
- Added speaker for better function and music to help children, it also adds weight to improve its stability.
- Added Robot pencil sharpener for visual aspect and to help the students work.
- I also added an extra compartment on the bottom to hold up to 4 exercise books for students on the table.

Demonstrate Answers:

Too High

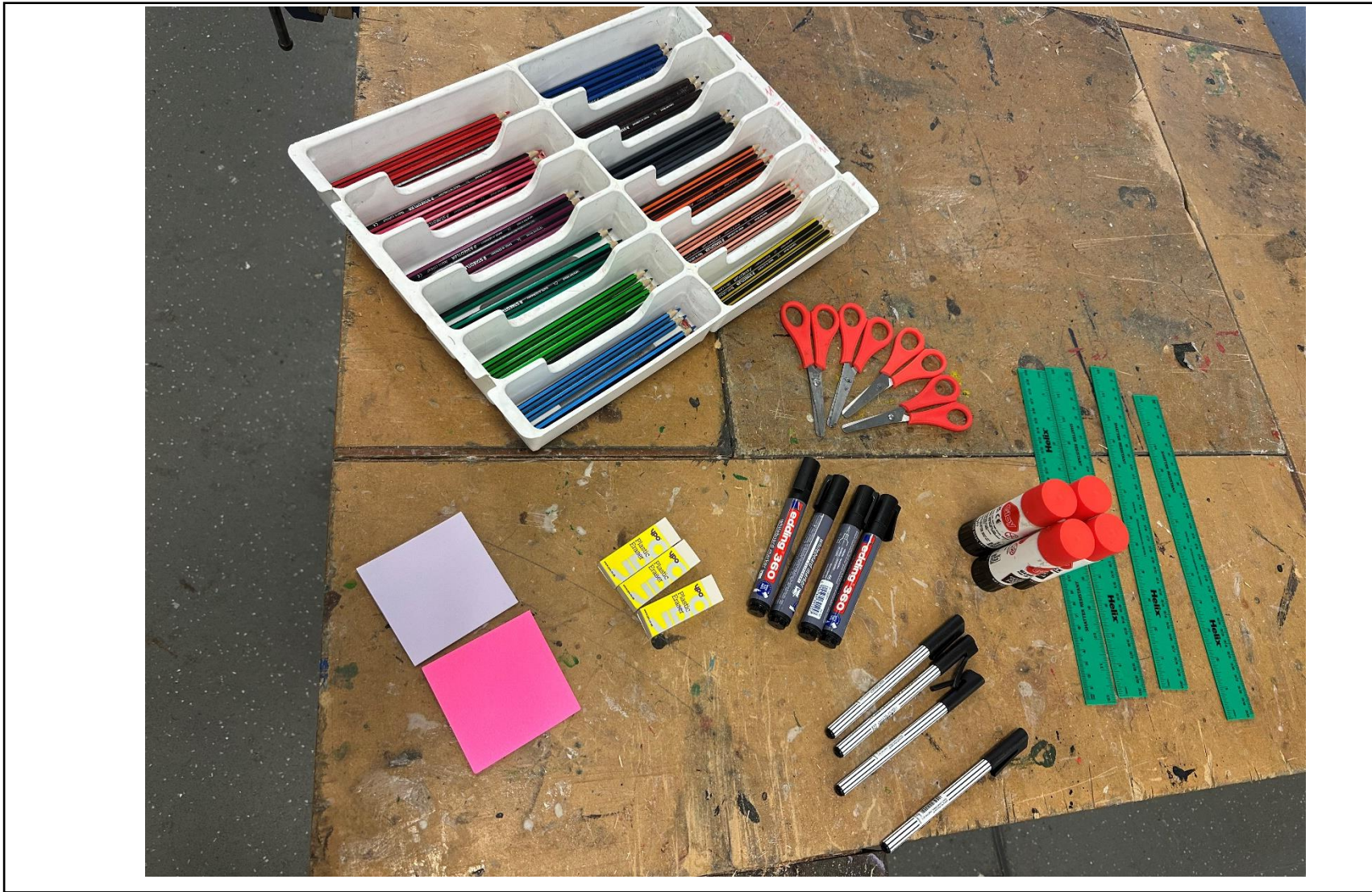
Does not show where the Pens, pencils highlighter etc will go.

Possibly fall over? Not stable enough

Bottom area is wasted space, possible drawer instead?

**Does not show a view of the other side
– possible symmetrical design**

Engineering Design – NEA Introduction lesson



Engineering Design – NEA Introduction lesson

