



## .: Futuristic Desk Organizer .:

**Too Cool IDEAS** manufactures a variety of products out of many different materials and sells them to both the office and household marketplace.

The company president complained about the number of messages on pieces of scrap paper lying all over his desk, not to mention the massive quantity of pens, pencils, rulers and other items continually cluttering her work space. As a result, Too Cool IDEAS is currently interested in expanding their current product line to include a desk organizer.

You as one of their product designers have been given the task of designing and building a desk organizer prototype for possible production. Design criteria is outlined below...

- It must be designed to hold/store the items provided to you (see Mr. Williams for items).
- In addition the company would like to see it include a variety of line/shape features, so you must include in your design at least (1 Cylinder/Round Shape, 1 Arc, 1 Angled Line).
- The overall footprint (size) can be “no larger” than 10" wide x 10" deep x 7" in height.
- NOTE: All Prototype material “thicknesses” will represented (drawn) in your CAD and 3D Modelled Drawings. Cardboard thickness will be 3/16" OR 4 mm.

### Complete the following...

- 1.) “Sketch” 3 different **isometric concept designs** on page.
- 2.) Select the **best solution** from your 3 design sketches.
- 3.) Produce a **CAD Isometric Drawing** to scale. (Show thicknesses of all material)
- 4.) Produce a **CAD 3 View** fully dimensioned. (Show thicknesses of all material)
- 5.) Produce a **3D Scaled Model** using Fusion 360. Texture all surfaces (plastic, wood, etc.)
- 5.) Construct a full size **Prototype** of your best design solution.
- 6.) Create a full letter size page **Product Flyer** with the following...

(Minimum (2) Model 3D Views, Paragraph Description, Itemized Feature List)

### Grading Rubric

- 3 Concept Isometric Sketches (25 pts. ea.) ..... 75 pts.
- CAD Isometric Drawing to scale ..... 75 pts.
- CAD 3 View fully dimensioned working drawing ..... 75 pts.
- Scaled 3D Model using AutoCAD ..... 100 pts.
- Full size **Prototype** ..... 100 pts.
- **Product Flyer** detailing the organizer and its various features .....75 pts.

**Total Points ..... 500 pts.**