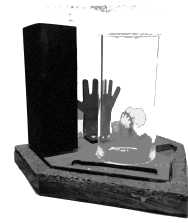


Drafting: The Desk Organizer



RATIONAL:

It seems no matter where you are trying to work you have to constantly move items around the desktop or to another surface to make room for your work. Wouldn't it be nice to be able to design specialized organizers to increase your organization and therefore improve your productivity?

DESIGN STATEMENT/OBJECTIVE:

Design a desktop organizer.

CONSTRAINTS:

- **Footprint:** The *Desk Organizer* footprint should not exceed 5" X 10" or 50 square inches.
- **Materials:** The *Desk Organizer* must include a **recessed area**, a **bent plastic part** and should have a **wood base** made of $\frac{3}{4}$ " pine (laminated $\frac{1}{4}$ " + $\frac{1}{2}$ "). (These constraints are used so students fabricate their design and get experience using the **band saw**, the **3D printer**, the **laser cutter/engraver** and the **strip heater**.)
- **Theme:** The design should be based on a theme.
- **Items:** The Design must be able to hold 6-8 different items

REQUIRED OUTPUTS/DELIVERABLES:

- Initial Brainstorm [items (40), materials (30), themes (30)]
- Theme/Shapes Sketches (at least 10 themes sketched)
- Demonstrate how sections will hold what items, evidence in sketches
- Concept 1 Sketch (Isometric 1)
- Concept 1 Sketch (Isometric 2)

AUTODESK INVENTOR DELIVERABLES:

- Solid Models (Autodesk Inventor *.ipt*)
- Sub Assemblies (Autodesk Inventor *.iam*)
- Assemblies (Autodesk Inventor *.iam*)
- Presentation Animation (Autodesk Inventor *.avi*)
- Working Drawing (Autodesk Inventor *.idw* – submitted as a *dwf file*)
- Printed Drawings

FINAL DELIVERABLES:

- Commercial
- Working Prototype

