

# Table: Justification of Materials to be used

## Example entry

| <i>Sequential number</i> | <i>Descriptive name for the part</i> | <i>Details describing the material or manufacturing technique</i> | <i>Justification of why this part, material, and/or process has been selected. Remember, connect to the needs of the design</i>                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------|--------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part #                   | Part Name                            | Component / Material / Manufacturing Technique                    | Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 1                        | Drawer Handle                        | 3D printed PLA plastic                                            | <p>The PLA plastic is readily available in our design studio, and is rigid enough to allow testing by several different users. In addition, the range of colors available in PLA filament allow the prototype handle to closely meet the aesthetic needs of the user.</p> <p>The 3D printer allows for rapid prototyping of the handle using an STL file created in Fusion 360 CAD software. When printed at .15mm layer height, with 40% infill, the PLA handle closely matches the aesthetic and functional needs</p> |

## Steps:

1. Follow the instructions [here](#)
2. Complete the table below with the relevant information.
3. Copy and paste this table into your Design Technology IA Inquiry Portfolio

| Part # | Part Name | Component / Material / Manufacturing Technique | Justification |
|--------|-----------|------------------------------------------------|---------------|
|        |           |                                                |               |
|        |           |                                                |               |
|        |           |                                                |               |
|        |           |                                                |               |
|        |           |                                                |               |

Adapted from Hammond A

[https://docs.google.com/document/d/1fcM8yuCqt76\\_-dXAS7LAO7\\_SLd41T5uPs7gPggPR5kA/edit](https://docs.google.com/document/d/1fcM8yuCqt76_-dXAS7LAO7_SLd41T5uPs7gPggPR5kA/edit)