



Digital Design Graphics Technology
Napa Valley College

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DDGT130 – 3D Printing Project Sheet

Name: _____ Date: _____

1. Is this project 1, 2, or 3?

Description:

Project 1

Project 2

Project 3

Project 1 is a single part

Project 2 is multiple stand-alone parts that fit together in an assembly

Project 3 is an assembly with clearances, printed as a single part

2. What is the name of your project?

3. What material and color should it be printed in?

Stratasys F170 and F190-CR materials that use **soluble support**.

- ABS
(Should be used for most prints unless needed otherwise)
- TPU-92
(flexible plastic, impact resistant)
- ABS-CF
(Carbon fiber reinforced ABS, 30% stronger, when extra strength or durability is needed)
- Nylon
(for high temperature, high impact, or high friction implications, can be used upon special request due to extra cost)

Choose One
Material

ABS

TPU-92

ABS-CF

Nylon

Choose One
Color

- Black Only -

- Black Only -

- Black Only -

Dremel DigiLabs 3D45 materials that use **break-away support**

- | | | |
|---|-------|----------------------|
| - PLA
(Should be used for decorative or low stress applications) | PLA | |
| - PETG
(higher strength, heat resistance, chemical resistance, UV resistance compared to PLA) | PETG | - Transparent Only - |
| - Nylon
(for high temperature, high impact, or high friction implications, can be used upon special request due to extra cost) | Nylon | - Black Only - |

Elegoo resin 3D printers that use **resin**

- | | |
|-------------------------------|-------|
| - ELEGOO Resin Black 2.0 | Resin |
| - ELEGOO Resin Grey 2.0 | |
| - ELEGOO Resin Space Grey 8K | |
| - ELEGOO Resin White 2.0 | |
| - ELEGOO Resin White Smoke 8K | |
| - ELEGOO Resin Vanilla 8K | |

4. What units of measurement were used?
5. Does it need to be scaled? Are there any issues or parameters to be aware of?

6. What kind of infill should be used? Solid? Sparse? How dense?

For Stratasys Printers (Infill type and density percentage)

For Dremel DigiLabs Printers (Infill type)

7. Do you plan on doing any post-processing? If so, what? (Epoxy, dowels, standard hardware for assembly, etc.)?

8. What was your inspiration for your project?

9. What was the hardest part of the design process?