**MAKE SURE TO CHECK REQUESTED COLORS AND SETTINGS**

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**Printing Guidelines:**

* Prioritize projects for classes and organizations; then research; then personal projects.
  + Follow the queue in order of submission as well as possible.
* Print larger objects on the Fusion printers. If they are detailed and fit on the DREML’s do them there instead.
* Resin prints are expensive. The Objet and Formlabs printers are to be reserved for highly detailed parts or on request.
* Prioritize requested settings over shop settings. If there are any questions about the possibility of a print, double-check with another student staff member (or Gabriel) and then contact the submitter.

**Slicing Tips:**

* Try to **point detailed portions and text face up** - printing them face down or facing sideways with supports will make these details less accurate.
* **When printing hollow objects, stand them up** (use the Fusion printers for larger objects) instead of laying them down and supporting the insides. This will ensure a straighter print and uses less filament.
* **Place objects in orientation that produces minimal overhanging sections** but keeping in mind detailed sections such as cavities and lettering.
* **Holes print better facing up**, but if they are facing sideways, it may be best to block supports inside them.
* Fusion supports are super solid, when possible, try to minimize supports for these printers.
* Objet resin prints should have their **shortest axis perpendicular to the build plate**.
* Default print settings are 20% infill and support for any angles over 45°.

**Pre-Check:**

* Is the object printed in the requested color/settings?
  + We only print in colors other than requested if we do not have the specified color. If asked for specific color that is not in stock, check with submitter if they would prefer grey, white, black, or red.
* Are there any other objects that could be printed with it?
* Is the object a personal project? Personal projects should be held off until all class and research projects are finished/in progress.
* If slicing for the Fusions - have you selected the correct nozzle size for the printer this file will be on?