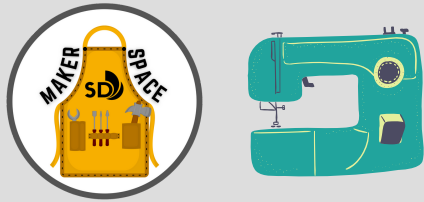# IF YOU HAVE BOOKED THE MAKERSPACE STATION, PLEASE READ:

SEWING, EMBROIDERY and SERGER machine:

- **What materials do I need to bring?** Bring your own fabrics, bobbins, special needles and threads.

- **Will the IDEA Lab provide any materials/special supplies?** No, the library does not provide or sell fabrics or special sewing supplies. Some threads, a bobbin and a basic sewing machine needle will be provided upon availability.

- **What other supplies may be available during my appointment?** Irons, ironing boards, cutting mats, and fabric scissors may be available depending on availability.

- **Which embroidery software should I use for my custom designs?** Ink/Stitch *https://inkstitch.org/*, an open-source machine embroidery design platform based on Inkscape. Check out some tutorials to start, *https://inkstitch.org/tutorials/*. Save your design files to a flash drive.

- **Check out the DIY Guides for each machine:**
  - Sewing Guide **here**.
  - Embroidery Guide **here**.
  - Serger Guide **here**.

CUTTING MACHINE (Silhouette Cameo):

- **What supplies/materials do I need to bring?** Bring your own materials, such as paper, cardstock, or vinyl sticker, and a laptop with the design software pre-installed, **https://www.silhouetteamerica.com/software.**

- **Will the IDEA Lab provide any supplies/materials?** A laptop, cutting mats, and weeding tools may be provided by lab depending on availability. Cutting materials will not be provided.

- **Which design file formats should I prepare?** Design(s) should be prepared prior to the appointment to allow you time to work on cutting. (Silhouette Studio can import a variety of image file types including the following: STUDIO/STUDIO3 files, GSD/GST files, DXF files, JPG, PNG, BMP, GIF, and TIF files.)

- **If I am using Heat Transfer Vinyl, do you have suggestions for temperature and time to heat press?** See **Cricut Easy Press 2** Heat Guide **https://cricut.com/en_us/heatguide** for pressing heat temperatures and times.

- **See heat transfer vinyl settings for transfer temp/time chart here.**

- **Check out the Silhouette Cameo Guide here.**

DYE SUBLIMATION MACHINE:

- **What software should I use to create my designs?** Any graphic design software of your choice. *(Suggestions: Adobe Illustrator, Adobe Photoshop, Canva, Inkscape, and GIMP).*

- **What supplies/items do I need to prepare and bring with me?**
  - **Your Designs:** Prepare your designs ahead of time and save them to a personal external storage device in any of the following file types (.jpg, .jpeg, .png, .bmp, .heic, .heif, .tiff, .pdf, .eps, .ps.), with a minimum resolution of 300DPI.

  - **Transfer paper:** Sizes 8.5" x 11" and 8.5" x 14" (your design should not exceed these dimensions). The lab uses TexPrint-DTR Heavy sublimation transfer paper. *Upon availability, the lab may provide up to 5 sheets of transfer paper.*

  - **Fabrics or other items.** Polyester and polyester blend fabrics yield best results as dye sub ink is designed to bond to these materials. Designs will show up best on a white surface. The item should be flat so the heat press can apply pressure and heat uniformly on the item. ie. Shirts, Tote bags, Aprons, Pillowcases, Potholders, and Socks.

- **Check out the Dye Sublimation Guide here.**

WARNING: Temperatures will get extremely hot and can range up to 480 degrees. Use extreme caution.

CNC, CARVEY MACHINE

- **Do I need to bring my laptop?** You may bring your laptop for easy access to your files. You will have access to your Easel account from the lab computer.

- **Which design file formats should I prepare?** Have design file(s) prepared prior to the appointment. (The Easel app accepts the file types: SVG, DXF, and G-Code format.)

- **Where should I upload/save my designs?** In the Carvey Software called Easel. Please create a free personal web-based Easel Account **https://easel.inventables.com/users/sign_in**.

- **What about Carving Bits?** Limited bits will be provided upon availability. You may also bring your own **https://www.inventables.com/categories/carving-bits**.

- **What materials can I use with Carvey, CNC Machine?** Only the following materials are approved: **http://carvey-instructions.inventables.com/materials/**

- **How big is Carvey's Build Area?:** **https://inventables.zendesk.com/hc/en-us/articles/360012727214-How-big-is-Carvey-s-build-area-**

- **Need help running your first Carvey Project?** See Carving with Easel instructions, **http://carveyinstructions.inventables.com/easel/**

- **Clean-Up:** We ask that you clean up after your session by placing all bits and clamps back into their appropriate storage containers and vacuuming any leftover debris.
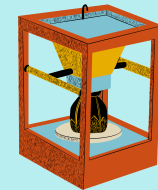
- **Check out the Carvey CNC Guide here.**

LASER PRINTER MACHINE
(Glowforge)

- **What materials can I use with the laser printer?**
  - **ONLY PROOFGRADE MATERIALS** are approved and can be used with the Glowforge at the IDEA Lab at Central Library.

- **Where can I purchase Proofgrade materials?**
  - Glowforge Online Store **https://shop.glowforge.com/**
  - Michael's-**https://www.michaels.com/search?q=glowforge**

- **Will the Library provide or sell materials onsite?** No, the library will not be able to provide or sell **Proofgrade materials.**

- **Which design software should I use?** You can design with any software that saves as an SVG, including graphic design software like **Adobe Illustrator** ($) or **Inkscape** (Free).

- **Which design files should I prepare?** Prepare your design files prior to the appointment. [Glowforge is compatible with JPG and PNG 'bitmap' (to engrave only), but works best with SVG 'vector' (to cut & score).]

- **Where will I upload my designs?** You will be provided access to the Glowforge App during your appointment in order to upload your designs and edit the cut & engrave settings.

- Watch this intro video to Glowforge App settings with Proofgrade Materials **https://www.youtube.com/watch?v=FAh6wqGklyo** (See Time 0:00-2:32).

- **Tutorial**: Using Inkscape to design for Glowforge - **Watch on YouTube here** OR Follow Inkscape First Prints Steps **here**.

- **Check out the Glowforge Laser Printer Guide here**.

3D PRINTING

- **Which design file formats should I prepare?** Have your .STL file prepared prior to visiting the IDEA Lab.

- **Where do I go?** Stop by the Central Library IDEA Lab on the 4th floor, during open lab hours. Drop-ins are welcome.

- **How long will it take?** Be prepare to monitor your print in the lab for the entirety of the printing process. Maximum print time is three (3) hours.

- To submit 3D print request for branch pick-up, visit: **https://www.sandiego.gov/public-library/idea/3d-print**

🚫 **Cancellation Policy for all sessions:**
If you need to cancel your appointment, please do ASAP. Lab sessions are limited. Find the cancel option in the email appointment confirmation.