	Fab Lab Essentials		FAB LAB
APPLE VALLEY STEM HIGH SCHOOL academics • arts • athletics	Heat Press - Corporate Logo		Apple Valley

Name		Period	Score

Introduction

There are many ways to solve a problem. Sometimes it is as simple as applying a piece of duct tape. Other times it takes months or years for a product to progress from an idea into full-scale production. Often engineers and designers use a specific set of steps (sometimes called a design process) to find the best solution to a problem.

In this activity your team will act as designers in a company that needs a t-shirt design for their corporate sponsored fundraiser. Your task is to create an attractive t-shirt design that will be worn by employees of the company at their fundraising event. Go to [https://helpx.adobe.com/illustrator/how-to/design-logo.html?set=illustrator--get-started]. A design process that progresses from brainstorming to presenting a final design will be used and documented. Each member of the team will have a product to present to the company executives for final approval.

Equipment

- Laptop computer with Photoshop and Illustrator
- Vinyl Cutter
- Heat Press
- Fab Lab Notebook
- Xacto Knife & Tweezer
- Pencil
- Pen

Materials

- Various colored heat transfer vinyl adhesive rolls
- T-shirt

Procedure

In a team of three or four, using only the materials provided, design and cut with the vinyl cutting machine a corporate logo t-shirt design for each member that can be used as a sample for a corporate fund raising event. You also need to create a fictional name and logo for your company to be part of your design.

Brainstorm- Each member of the team will draw a minimum three brainstorming ideas for your corporate logo t-shirt design in your Fab Lab notebook. The more ideas you generate the better. You may handle and inspect the materials and research examples from the internet but you cannot copy anything directly or down load any copy written or trademarked material from the internet.

Design- Sketch an annotated solution in your Fab Lab notebook. The design needs to be such that it can be transferred into Illustrator and made into a vectorable vinyl

cut file. All changes from your design idea to the actual corporate logo t-shirt design prototype need to be documented.

Load your files into the appropriate software on the computer attached to the Vinyl Cutter you are using. For Heat Transfer Vinyl, load the transfer vinyl in the machine with the PU surface up and the clear shiny transfer sheet down. **YOU HAVE TO REVERSE THE IMAGE** in the software before you cut the file.

Once your corporate logo t-shirt design has been cut, you need to weed the unwanted vinyl from you t-shirt design and apply it using the directions found in the Siser® You Tube video clip at [https://www.youtube.com/watch?v=qlrn7q6vj0s].

When all corporate logo t-shirt design from your team are complete you will present your design for approval of the large group.

Scoring

Your members in your team will receive points for the following.
Creativity: Up to 15 points for creativity in the design and use of each individuals materials
Teamwork: Up to 10 points for how well your team works together
Performance: Up to 5 points for creating a functional t-shirt with logo.

Conclusion

1. How do corporations use fundraising events to raise awareness of their company and why?

2. What purpose does a prototype serve in the design process?

3. Why does it matter what material a t-shirt is made of in heat transfer printing?

4. What other items besides t-shirts could use the heat transfer process?