



# Fab Lab Design Brief

## Vinyl Sticker Tutorial

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Mr. Brandon Prentice  
Intermediate Unit 1  
K - 2<sup>nd</sup> Grade

### Summary

This lesson introduces the software and setups needed to use a vinyl cutter. Students will learn how to create a small adhesive vinyl sticker to introduce the design concept needed. The sample project included introduces step-by-step on how to draw a design and the process needed to create more unique graphics in the future. Machine setups are also noted for the instructor to learn how the vinyl cutter operates and sustains itself for more projects. Each student project can take anywhere between 10secs-5mins to cut out, depending on the size of the assignment. **Estimated Time: Three (1 hour) Days**

### Standards

#### Standards for Technological Literacy:

1. STL2.K-2.E – People plan in order to get things done.
2. STL3.K-2.A – The study of technology uses many of the same ideas and skills as other subjects.
3. STL8.K-2.B - Design is a creative process.
4. STL9.K-2.B - Expressing ideas to others verbally and through sketches and models is an important part of the design process.
5. STL10.K-2.A - Asking questions and making observations helps a person to figure out how things work.
6. STL11.K-2.C - Investigate how things are made and how they can be improved.

### Objectives

- 1) Students will understand the basic features of design software and how it can be easily used to their needs.
- 2) Students will apply the ability to manipulate geometry to produce a 2D graphic.
- 3) Students will create vinyl adhesives to then peel and apply to a surface.



Name: \_\_\_\_\_

Date: \_\_\_\_\_

## How to Make a Vinyl Sticker

Learn to make your own sticker with our easy to use vinyl cutter! By using the selected software, students can make their own graphic in minutes. Follow the instructions and handouts below to introduce graphic design in a fun and creative way!

### Days 1&2: Learning the Software

It's always good to start the first day introducing the software that is going to be used. To use this machine, we recommend you either use **CorelDRAW**, **Inkscape**, or if the school district has it, **Adobe Illustrator**. This tutorial will be focused on Inkscape, which is a free program that can easily be practiced on when you download it from their site: [www.inkscape.org](http://www.inkscape.org).



Start by having every student draw out a keychain design. This is an easy way to show all of the basic features that are in the handouts (Text tool, basic shapes, selection tool, etc.). An example size could be 2" x 0.75" to teach students about sizing objects. Once students understand the basics, the rest of the time can be spent completing the handout. **\*The document should be setup by an instructor to be 5" wide by 3" tall before the student gets on.**

### Day 3: Cutting out the Stickers and Peeling

**\*After the handout has been completed**

The Fab Lab Manager or trained instructor will then load the vinyl cutter and begin to set up all of the files from a USB to cut them all out at once.



#### Peeling the Objects:

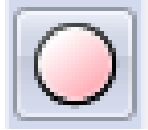
- **Tools needed:** Scissors, pressure plates, tweezers (all provided).
- Students peel away backing and for this project, the lettering as well to throw away.
- Remove white backing from the vinyl (circle shape) and stick it to the desired surface.

**\*Here is a video showing the entire process of setting up the vinyl cutter:**

[https://www.youtube.com/watch?v=QagQ9\\_Tg8os](https://www.youtube.com/watch?v=QagQ9_Tg8os)

## Sticker Design

**Step 1: Draw a circle using this tool**



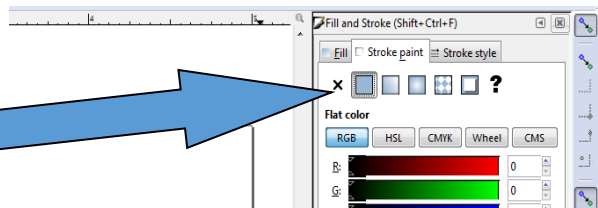
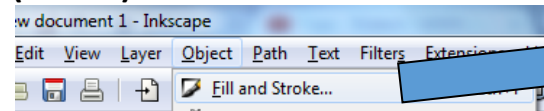
**Step 2: Type your first name inside the circle using this tool**



**Step 3: Straighten and center everything**



**Step 4: Make everything have an outline (stroke) with NO fill**



**Step 5: You're Done! Now you can draw another one however you like! Make sure to save your drawing.**





# Vinyl Sticker Rubric

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Students are to use the following rubric to target expectations and achievement to complete the vinyl sticker(s).

Points	7-8	5-6	3-4	1-2	Score
<b><u>Required Elements/ Participation</u></b>	Time was used well to create multiple vinyl adhesives.	The student kept somewhat busy with at least one 2D graphic.	The student was a little distracted throughout the lesson.	The student did not use their time well when making the project(s).	
<b><u>Creativity</u></b>	The student's graphic was designed very well.	The student's graphic was designed typical.	The student's graphic was designed below average.	The student's graphic was designed very poorly.	
<b><u>Appearance (Peeling)</u></b>	The appearance of the vinyl is exceptionally attractive	The vinyl is mostly attractive and neat.	The vinyl is not well thought out or organized.	The appearance of the vinyl is messy and unpractical.	

**Total Score:            /24**