# Warmup 4/(\# of letters in the alphabet -2 ) 

## SIT WHERE YOU WANT

1. Go over to where the line designs from last year are. Find some that you like. Try to get some ideas for a design you might want to make.
2. Get a ruler from Mr. Lischwe's desk. (If all the rulers are gone, you will need to use a protractor)

## Line Designs

- Video Tutorial: https://www.youtube.com/watch?v=|fvC21f0 hxE


## Best tool to use...

- MECHANICAL PENCIL
- More precise than a regular pencil
- Regular pencils get duller as you use them, which changes the thickness of the lines


## A note about rulers...

- DO NOT hit them against things
- If you dent the side of a ruler, it will not make a straight line anymore - which can ruin a line design!
- The simplest line design comes from one angle.
- The angle can be any shape.

- No matter what shape you make your angle, it is easiest if both sides of the angle are the same length.
- Use your ruler to draw an angle of any shape. - Make sure the sides are the same length.
- Mark a dot at every centimeter on both sides.
- The smaller the dot, the better.
- Number the dots like this:

- WITH A RULER, connect 1 with 1, 2 with 2, etc.
- Be as precise as possible. The more precise you are, the better your design will look.


- You can put more than one angle back-toback...

- You can put more than one angle back-toback...



## You can make the angles overlap...



## You can make the angles overlap...



## Or not overlap...



## Or you can do half an angle...



## Or you can do half an angle...



## You can do letters, or even words...



## You can use a protractor to make certain shapes...

- Perfect triangles have 60 degree angles
- Squares have 90 degree angles
- Pentagons have 108 degree angles
- Hexagons have 120 degree angles



## Sample ideas...



## Sample ideas...



## Sample ideas...



Sample ideas...


Sample ideas...


Sample ideas...


## Sample ideas...



## Sample ideas...



http://mrchads.weebly.com/uploads/9/1 /3/8/9138245/circle-animation.gif

## But no matter which design you choose...

- You MUST color it!
- Medium or far-apart dots: you must color the squares in (a checkerboard pattern usually looks best)
- Very close-together dots: use colored pens or thin markers to make the lines themselves





## Examples...



## Examples...





## Your line design will go in as a SMALL grade...

- Your grade will be based on:
- Precision/neatness
- Coloring your design (not lazily)
- Your design being not too simple.
- RUBRIC (tomorrow)


## Before you start making your own...

- You must complete the "Line Designs Intro Worksheet"
- Once you finish the worksheet, you can turn it in, then get a white piece of paper from the table and start your own design!


## TIPS FOR GOOD LINE DESIGNS

## -PRECISION

- Smaller dots = better
- Color carefully - use an interesting color scheme and not just solid blocks of color


## Reminders...

- PLEASE PUT YOUR RULERS AWAY EVERY DAY THIS WEEK!
- If you take three colored pencils, you must put three colored pencils back.
- You may check out a mechanical pencil using your ID or something else you need back.
- Bring colored pencils from home if you have some.

