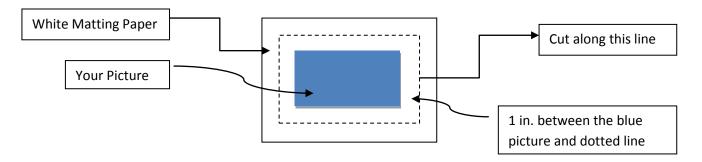
Name: Date:

## The Great Frame Up

**Step 1:** Choose your picture. Measure your rectangular picture's base and height. Write down the base and height values below.

**Step 2:** Attach your picture into the center of your matting (colored sheet of paper). Measure a one inch border around each side of your picture. Then cut out your picture and border.



**Step 3:** Now, it's time to calculate the length of your frame's sides. Each frame consists of 2 copies of 4 parts. Parts A and C are cut from 1 1/4 in wide strips. Parts B & D are cut from 1 1/8 in wide strips.

Now for the calculations. Please insert your base or height value into the equations below and solve for the length of your parts.

Length of Part 
$$A = base + 2$$

Length of Part B = base + 2 + 1
$$\frac{1}{8}$$
 + 1 $\frac{1}{8}$ 

Length of Part C = height + 2 + 1
$$\frac{1}{8}$$
 + 1 $\frac{1}{8}$ 

Length of Part D = height + 2 - 
$$\frac{3}{8}$$
 -  $\frac{3}{8}$ 

Name:
Date:

**Step 4:** Cut two of each part, for a total of 8 pieces, at the workbench using a pull saw and miterbox. Remember to measure carefully – due to a limited supply of framing material, you get one try at making each part. Get a friend to check your work and ask a teacher to check your measurement.

Remember: MEASURE TWICE. CUT ONCE.

**Step 5:** Find the midpoint of each part using any strategy you can think of. Try using a string the length of each part and folding it in half – such as in the ruler project. Maybe you can use a calculator.

Midpoint of Part A: _	<del></del>
Midpoint of Part B: _	
Midpoint of Part C: _	
Midpoint of Part D: _	

**Step 6:** Glue a pair of Parts A & B together, matching midpoints. Repeat with the second pair of Parts A & B.

**Step 7:** Glue a pair of Parts C & D together, matching midpoints. Repeat with the second pair of Parts C & D.

**Step 8:** Sand your frame with blue sandpaper first. Then use red sandpaper. Wrap the sandpaper around a scrap piece of wood so you don't burn your fingers with friction.

**Step 9:** Fit your four parts together to create a rectangle. Put glue at the corners. Check out this video on YouTube to see how it's done: <a href="http://youtu.be/AyhCDZ-zOHY">http://youtu.be/AyhCDZ-zOHY</a>