<u>Translation</u>: If you decide to do multiple translation trials always start from the same initial location, write down the translation you plan to do, and then record the new coordinates.

Vertices →	Α	В	С
Initial location	(24)	(11.4)	(2.15)
Translation 1 3 right, 2 up	(5,6)	(9,6)	(5,17)
Translation 2	(3.8)	(12.8)	(3-9)
Translation 3	(-48)	(5/-8)	(4,3)
Rule (A)	100 m	10 日本の日本の日本を 日本の記録をおります。 日本の記録をおります。	and service and services

Note in the move cord rutes you add the anount representation: If you decide to do multiple rotation trials you will need to select a new initial location for each trial. Record the coordinates for the initial location for each trial and the coordinates of the final location after the rotation. Be sure to rotate the same way, clockwise, for each trial.

Vertices →	Α	В	C C
Initial location 1	(1,1)	(6.1)	(1,6)
90° Clockwise	(17)	(1.6)	(6,7)
Initial location 2	(21)	(5,1)	(2.6)
90° Clockwise	(1-2)	(1-,-5)	(6:2)
Initial location 3	(4,3)	(5.1)	(3,1)
90° Clockwise	(31-4)	(1,-5)	(1,-3)
Rule	1 1		An and

The x + Y cordenous change places & The 4 corbonates

Student Sample A

Reflection: If you decide to do multiple reflections you will need to select a new initial location for each trial. Record the coordinates for initial location for each trial and the coordinates of the final location after the rotation.

Vertices →	Α	В	С
Initial location 1	(2.3)	(6.3)	(2.5)
Reflection over	(-3.3)	(-6,3)	(-2,5)
Initial location 2	(3'6)	(16)	(2:4)
Reflection over	(3. G	(1,6)	(2,4)
Initial location 3	4.4	7.4	(4.9)
Reflection over y-axis	(4,4)	(-7,4)	(-4,9)
Ruleman			

Challenge Questions: Origantive

What do you think would happen to the coordinates if your reflection were

The cordonateson the Youis change to a negative

 Would your <u>rotation</u> rule work if your initial location were in any other quadrant than the first quadrant? Why or why not?

No Because Itrototes into onegotive audiont

Summary Questions:

1. Describe what changed for ΔABC during this activity.

It moved

2. Describe what stayed the same for ΔABC during this activity.

Is was the same size when you moved It

3. Describe what you learned from this activity.

I learned How to Translate rotates
Reflect on acordonate Plane