



# Ms. Kimbrough's Transformation Restaurant.

8<sup>TH</sup> GRADE MATHEMATICS

# TEKS

## TEKS:

**(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:**

**(D) communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate;**

**(10) Two-dimensional shapes. The student applies mathematical process standards to develop transformational geometry concepts. The student is expected to:**

**(A) generalize the properties of orientation and congruence of rotations, reflections, translations, and dilations of two-dimensional shapes on a coordinate plane;**

**(B) differentiate between transformations that preserve congruence and those that do not;**

**(C) explain the effect of translations, reflections over the x- or y-axis, and rotations limited to  $90^\circ$ ,  $180^\circ$ ,  $270^\circ$ , and  $360^\circ$  as applied to two-dimensional shapes on a coordinate plane using an algebraic representation; and**

# The Students Will Be Able To:

- Recognized the 4 different transformation
- Determine what rule goes with each transformation
- Perform a transformation on a shape or line
- Write a rule for a transformation

# Breakfast

## **1. What's the Rules**

-Each group must make a poster with at least 3 of the 4 transformation. Poster must have a minimum of 3 pictures and 3 colors.

**100 pts**

## **2. My Translations Flip Book**

-Each student will make a book that includes the 4 transformations with a description of what the transformation are, and a picture of the transformation.

**100 pts**

# Lunch

## 1. Card Match

-Each student will get into partners and perform a card math game with the rules. Each student will together match the rules with a picture. Once all cards are matched record the answers on the answer sheet provided.

**100 pts**

## 2. Transformation Gesture

-Student will get into groups in pick 2 rules and come up with a gesture that can be used for future transformations. Each group must first okay the rule picked with a teacher.

**100 pts**

# Dinner

## 1. Math on the move

-Each student will by themselves walk around the room and solve problems and move to the station based on their answers.

**100 pts**

## 2. Transformation Picture pack

-Each student will get a transformation pack where they will perform transformations to create a new picture.

**100 pts**

# Dessert

## **1. Transformatin Video**

- Each student will watch a video over transformations and write a one page summary over the video

**100 pts**

## **2. Transformation Song**

- Each student will listen to the Transformation Songs and make a song over Transformations Rules and record it. The song must include all the transformation rules and must be written on paper before recorded

<https://www.youtube.com/watch?v=XrTTvY7JH5o>

<https://www.youtube.com/watch?v=NvMd-lelR04>

**100 pts**

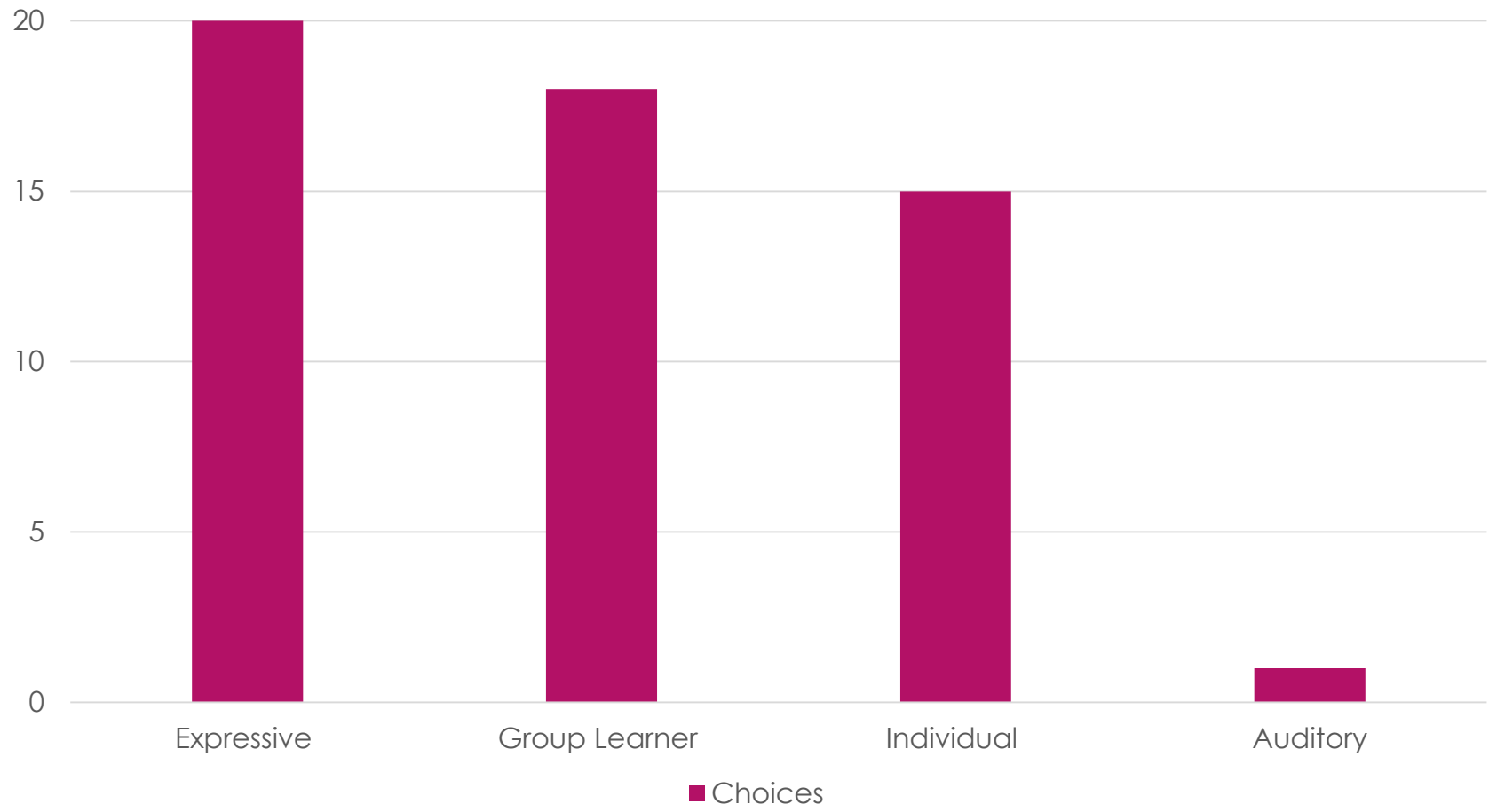
# Students Work





# Rubric

# What type of learner are my students?



What could I have done different?