

Unit 1 Project: Telling Stories with Transformations

Project Description: For this project you will be creating a flip book using your knowledge of transformations.

What is a flip book?

Flip books are something that dates back many years ago. Modern day animation is based on the flip book concept. A flip book is essentially a book that has still frames on each page. As you flip the pages of the book, the image moves. We will be creating our flip book on Google Slides to help us strengthen our understanding of transformations.

Project Requirements:

- Create a story and animate it by transforming images in Google Slides!
 - The graph template can be found on my website.
- Pick a row or column from the movement chart to guide your storyline. ***One additional movement must be a dilation.***
- Pick a point on your image and describe your transformation in algebraic notation from [for example $(x+3, y-7)$]. Be sure to label your starting point each time!
- **There will be a 10 slide minimum!**

Flip Book Instructions:

- Create Cover Page with including your names.
- Obtain graph template from my website.
- When you are ready to move to the next slide, right click current slide and select duplicate.

Student Roles:

For this project you will be working with an assigned partner. Work with your partner to decide who will take each role.

The Narrator: Responsible for typing your storyline and completing 5 slides.

The Organizer: Responsible for contacting teacher for questions, sharing documents, and completing 5 slides.

Rubric:

Category	Description	Points Earned	Possible Points
Creativity and Originality	Contains a completed narrative that is at least 5 sentences long. The slides are colorful, related and representative of the narrative.		10
Movements	The four chosen movements are accurately represented on the slides. At least one dilation is accurately used.		18
Description of Movements	Contains accurate algebraic notations for each slide (i.e. you should have at least 9 algebraic notation descriptions)		54
Student Roles	Student contributed to project equally and completed assigned role.		15
Presentation	Showcased Project.		3
	Total		100

Pacing Guide:

Friday (9/1)	<ul style="list-style-type: none"> <input type="checkbox"/> Complete Rough draft of story to be turned. <input type="checkbox"/> <i>Create Google Slides and Share with partner and me!</i> <ul style="list-style-type: none"> <input type="checkbox"/> Email: <input type="checkbox"/> Create Cover Page (not included in slide count).
Tuesday (9/5)	<ul style="list-style-type: none"> <input type="checkbox"/> Create two slides including their algebraic notation.
Wednesday (9/6)	<ul style="list-style-type: none"> <input type="checkbox"/> Create two additional including their algebraic notation. [4/10 slides should be completed.]
Friday (9/8)	<ul style="list-style-type: none"> <input type="checkbox"/> Create remaining slides including algebraic notation. [10/10 slides should be completed!] <input type="checkbox"/> Final draft of Narrative <input type="checkbox"/> Prepare for Presentation
Monday (9/11) Due Date!	<ul style="list-style-type: none"> <input type="checkbox"/> Presentation Day!

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Student 1: _____ Role _____

Student 2: _____ Role _____

Movement Chart: To decide how your image is going to move, choose a row or column from the chart below. **CIRCLE IT**. Your movements will be those that you circled. **Don't forget to include your dilation!!**

Rotation (180 degrees about the origin)	Reflection Over x axis	Translation	Reflection over y axis
Reflection Over x Axis	Translation	Rotation (180 degrees about the origin)	Translation
Translation	Rotation (180 degrees about the origin)	Rotation (90 degrees about the origin)	Reflection Over y axis
Reflection Over y axis	Translation	Translation	Reflection Over x axis

Tracking Transformations

	Explain Location	Original Point (x,y)	New Point (x,y)	Algebraic Notation	Type of Transformation/ Description
Slide 1-2					
Slide 2-3					
Slide 3-4					
Slide 4-5					
Slide 5-6					
Slide 6-7					
Slide 7-8					
Slide 8-9					
Slide 9-10					

