



Teaching *for*  
**TRANSFORMATION**

# Transformations in God's Creation

Darla Weber  
Coulee Christian



## Deep Hope:

My deep hope for this FLEx is that my students will see and identify geometric transformations in God's creation.

## Long Term Learning Targets:

- 🎯 I can praise and worship God for His mighty creation.
- 🎯 I can look at the world around me and see God in all areas of my life and creation.



## Curricular Outcomes:

- Analyze and understand reflected figures
- Define and graph translations
- Rotate figures about a fixed point
- Draw and analyze multiple transformations
- Create and identify tessellations
- Identify line symmetry in 2-d figures
- Identify rotational symmetry



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## Habit(s) of Learning:

**Curious Thinking:** Learning the vocabulary of transformations, applying those terms to creating their own designs. Finding examples of transformations in God's world.

**Gracious Communicating:** Introducing these concepts to the Freshman Algebra I students for their unit on linear transformations.

**Joy-Filled Collaborating:** Working as a team to develop a lesson plan for the Algebra I class presentation.



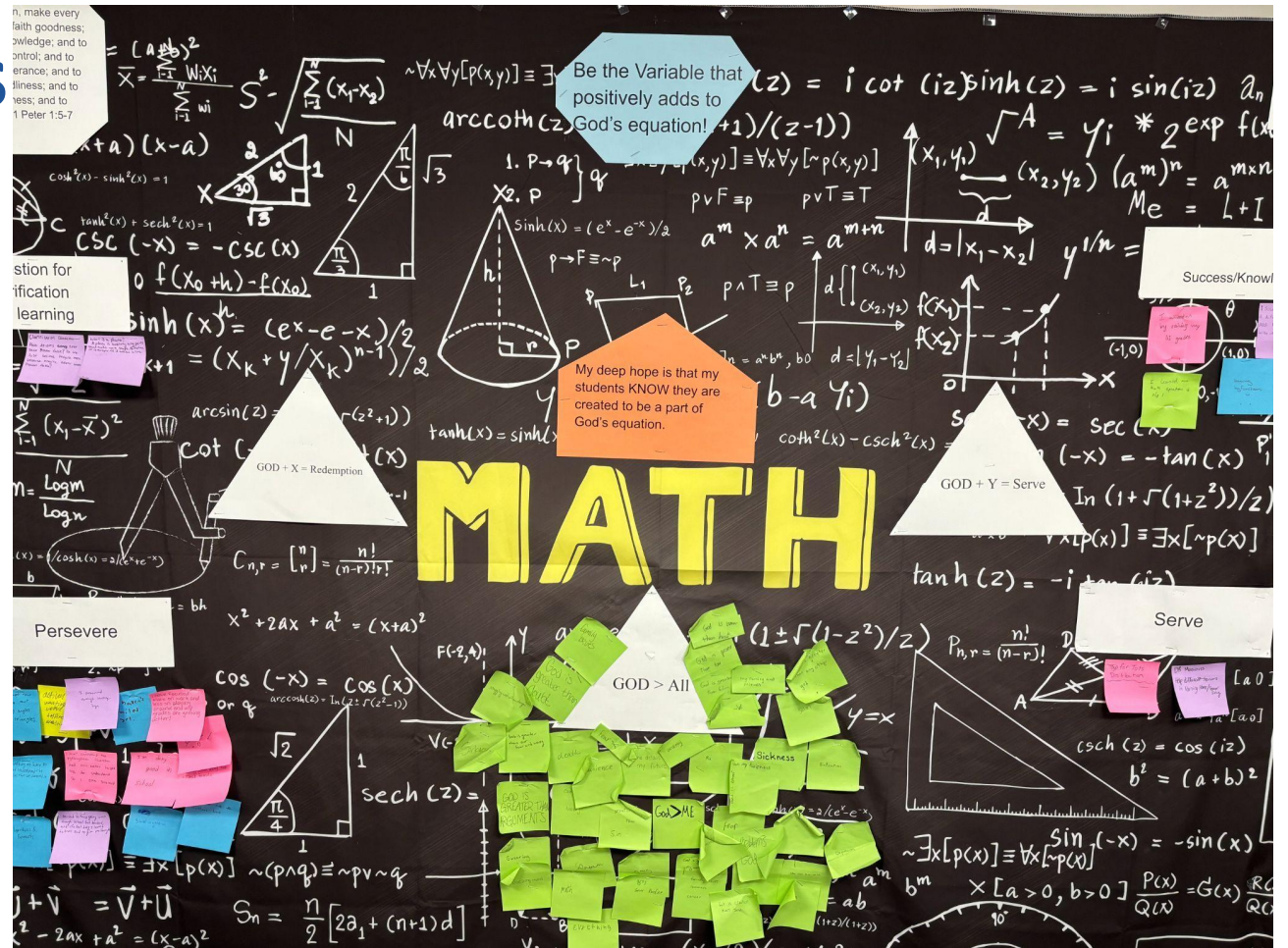
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## See God's Story:

Creation	Fall	Redemption	Restoration
Finding transformations in God's creation.	Due to the fall we tend to focus on self and not look at the world around us.	Thanks to Jesus we are able to resist the selfishness of focusing on self and serve others.	God continues to restore us to serve and obey him and our fellow man.

# Storyline: Serving Others

Students will live the Storyline “Serving Others” by teaching the Algebra I students the basic understanding of transformations and reinforcing the idea that I am a positive part of God’s equation.





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## Throughlines:

**God worshipping:** Students will be seeing and appreciating God's amazing creation and finding how He created and used transformations in nature. By seeing examples of God as the creator of transformations, they will realize that when we use them in art, design and building we are reflecting God's initial organizational designs.

**Community building:** By working as a class to create a way to teach these concepts, students will collaborate with each other and then share with the freshmen.





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## Formational Learning Experience:

**Real needs:** being able to apply transformations to creation and understanding enough to teach another class

**Real people:** classmates, Algebra I students

**Real work:** God worshipping, community building; developing a lesson plan and presentation for Algebra I



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## INVITE

I asked them if they would like to introduce a subject to Algebra I students showing them what they have to look forward to in Geometry.





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## NURTURE

- Students were allowed to ask for help while creating their book. They could also work together and collaborate as needed. They were encouraged by me and each other in their creativity and final products.







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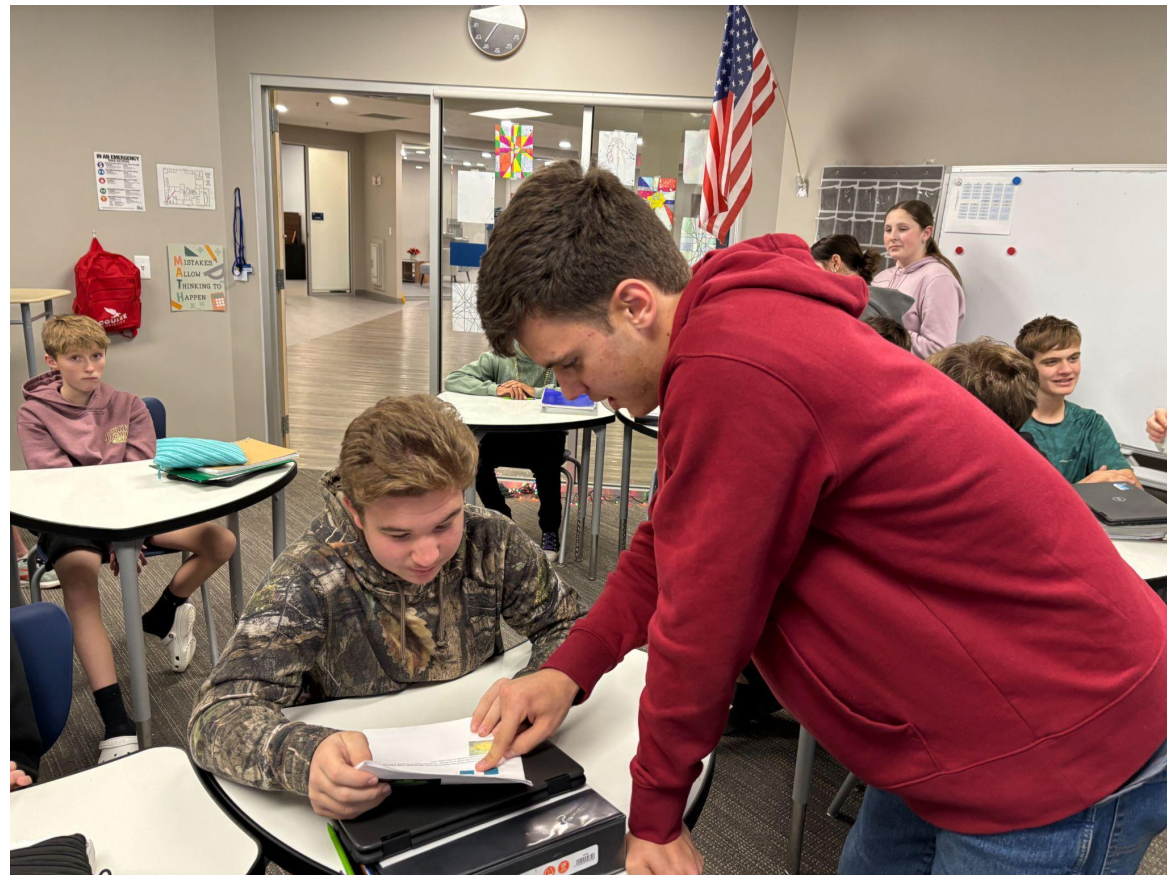
## EMPOWER

- Students were given their textbooks, direct instruction and help from me as needed to create their book of Geometric Transformations. They were then given time to practice with each other before presenting to Algebra I students.





# Empower



## Student Reflections:

Student 1: “I liked having a project based unit rather than a standard test.”

Student 2: “It was a lot of fun creating my book and presenting it to the Freshman Algebra I class.”

Student 3: “I’m glad I had the chance to share my book.”

Student 4: “Thank you for letting me serve the freshman class by showing them what I am learning.”



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## Teacher Reflections:

The students enjoyed serving the Algebra I class as they taught their learned material. I was pleased to see how seriously they took this project and how much they enjoyed teaching. Their books turned out amazing and will be used as future examples. Students saw that they are part of God's equation and that as they are positive variables in that equation they can serve others. They found great examples of transformation in God's creation which was my deep hope. They are seeing how math is throughout the world and God is the creator of all things.