

ACADEMIC EXCELLENCE

Biblical Worldview Shaping in 4th Grade Math

Exploring Mathematical Wonders: Unlocking Order and Creativity in 4th Grade!

In a recent journey through geometry, our 4th-grade stars delved into the intricacies of order, design, and the fascinating role of mathematics in shaping our understanding of the world. From lines and angles to circles and polygons, these young minds discovered the secrets of finding area and perimeter for various regular and complex polygons. Unveiling patterns and designs within the mathematical realm and our created world, 4th grade is uncovering the beauty of God's creation and learning to appreciate the Creator through the lens of math.

Developing Higher Level Thinking Questions:

1. Knowledge (Remember):

- What are the different types of polygons you studied in geometry?
- How is the area of a polygon calculated, and why is it important to know?

2. Comprehension (Understand):

- Can you explain the concept of tessellations in your own words?
- How does studying patterns and designs in our world contribute to understanding God as our creative Creator?

3. Application (Apply):

- Design your own tessellation using unique shapes. How does this activity reflect God's character of being an ordered Creator?
- How can the knowledge of polygons and tessellations be applied to create practical designs in our daily lives?



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4. Analysis (Analyze):

- Compare and contrast different types of polygons in terms of their properties and uses.
- Analyze M.C. Escher's artwork and identify the mathematical concepts he incorporated.

5. Synthesis (Create):

- Devise a mathematical art piece inspired by M.C. Escher, incorporating tessellations and unique shapes.
- Invent a real-world scenario where understanding geometry principles would be crucial.

6. Evaluation (Evaluate):

- Evaluate the significance of studying patterns and designs in fostering an appreciation for God's creation.
- Assess the impact of mathematical knowledge on living wisely in the world.

Shaping Values and Themes:

Order and Design:

- How does recognizing mathematical order and design in our world reflect God's character?

Creativity as Image Bearers:

- In what ways can we express our creativity as image bearers of God, similar to designing tessellations?

Wisdom through Learning:

- How does learning about math contribute to living wisely, as we strive to understand the intricacies of God's creation?



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Appreciation for God's Attributes:

- How can understanding geometric principles deepen our appreciation for God's attributes as revealed through mathematics?

Witness the excitement of 4th graders as they continue to explore the wonders of God through mathematics, a journey that intertwines learning, creativity, and a deeper understanding of the Creator!

