

Mathematical Literacy


An abstract geometric design featuring several overlapping purple triangles and a teal rectangle. The shapes are arranged in a way that suggests a complex, interconnected structure. The teal rectangle is positioned in the center-right, containing the names of the authors. The purple triangles are scattered around it, some pointing downwards and others upwards. The overall aesthetic is clean and modern.

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Essential Question



What does it mean to be mathematically literate?

- ◆ The Story
 - ◆ The Diagram
 - ◆ The Mathematical Representation
 - ◆ The V-S-G Model
- 


The Word Problem

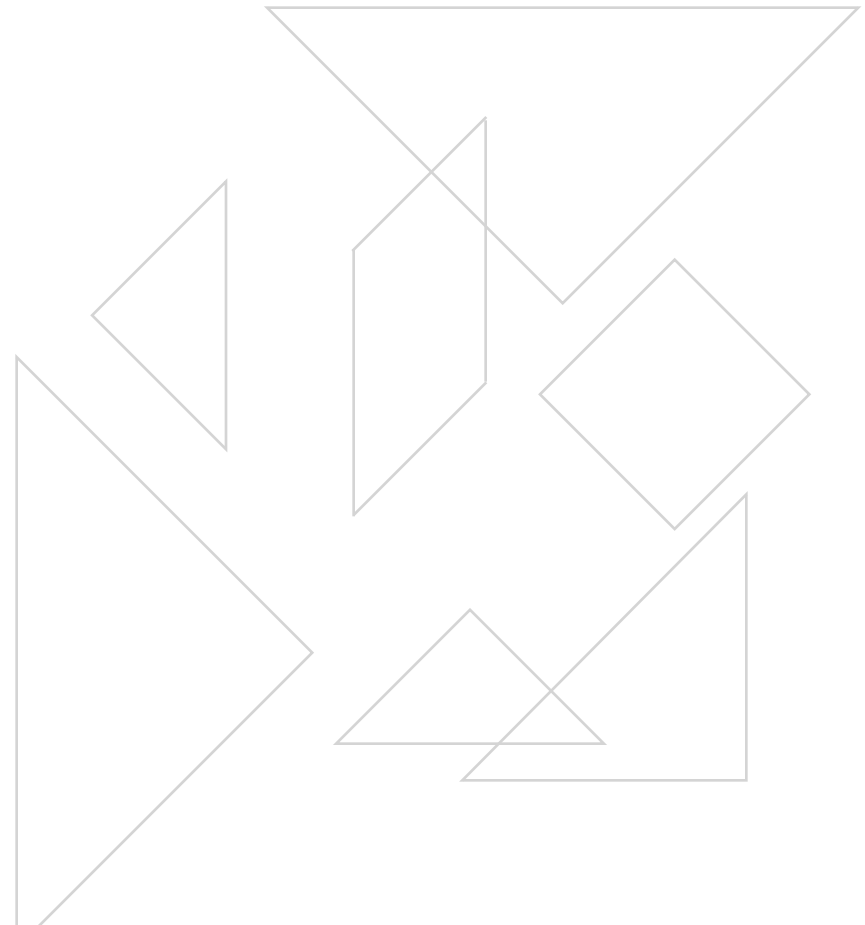
- ◆ Students won't attempt.....
- ◆ Students don't read.....
- ◆ Students can't read.....
- ◆ Students don't visualize.....
- ◆ Students don't think about.....
- ◆ Students can't draw.....



The Story

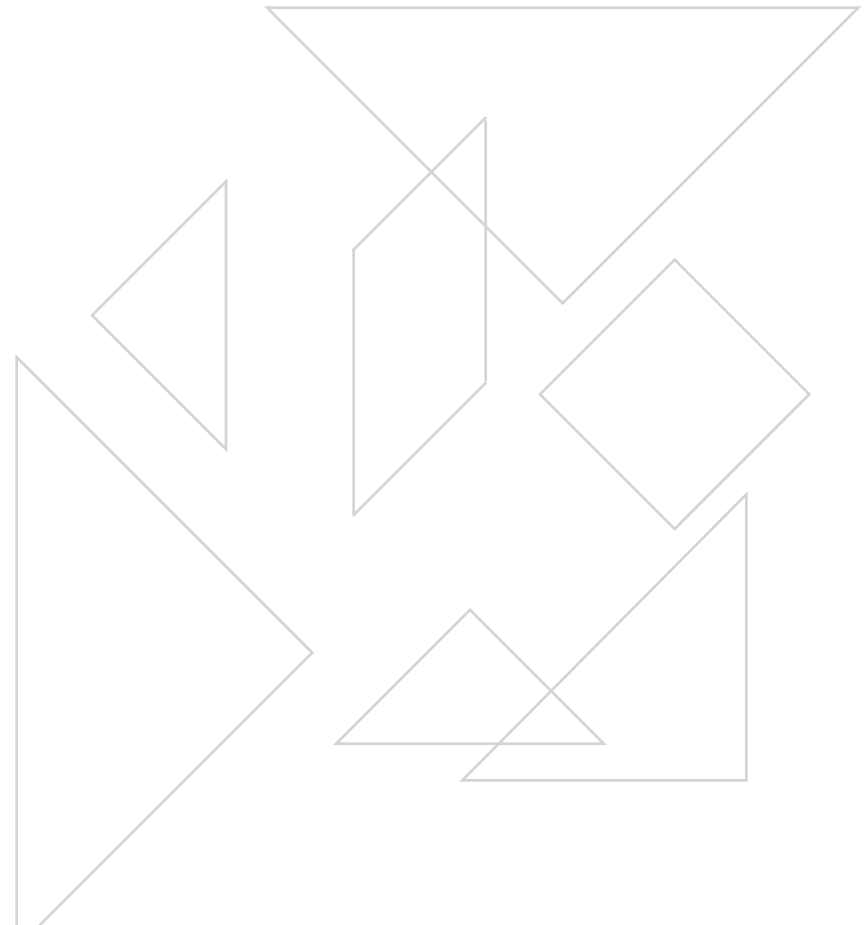
Setting the context

- 
- ◆ Personal Experience
 - ◆ Research
 - ◆ Network
 - ◆ Fabricate



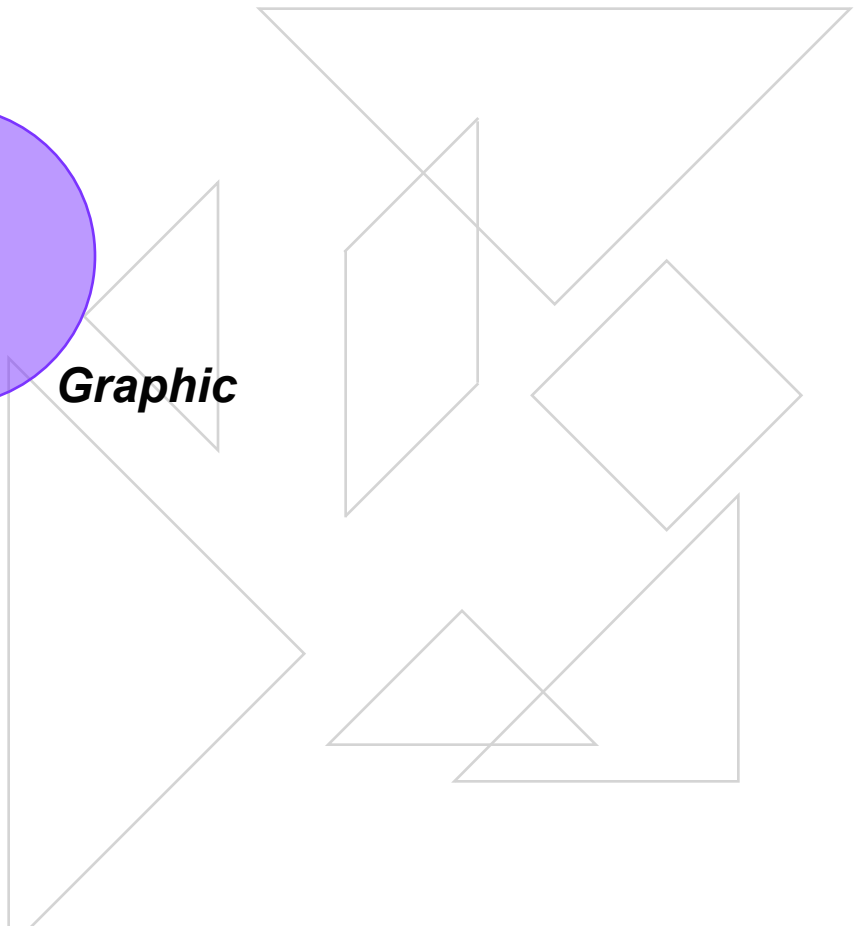
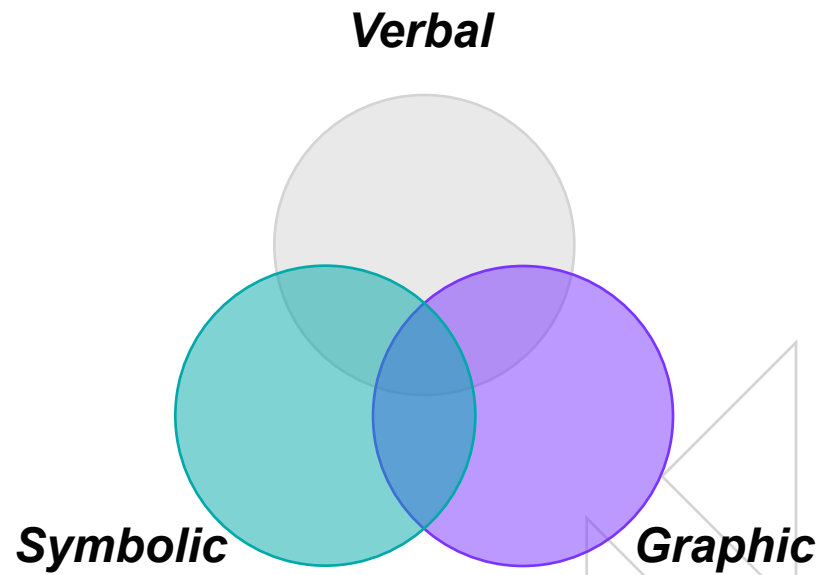
Diagrams

- ◆ Sketch
- ◆ Color
- ◆ Labels
- ◆ Directions
- ◆ Discussion



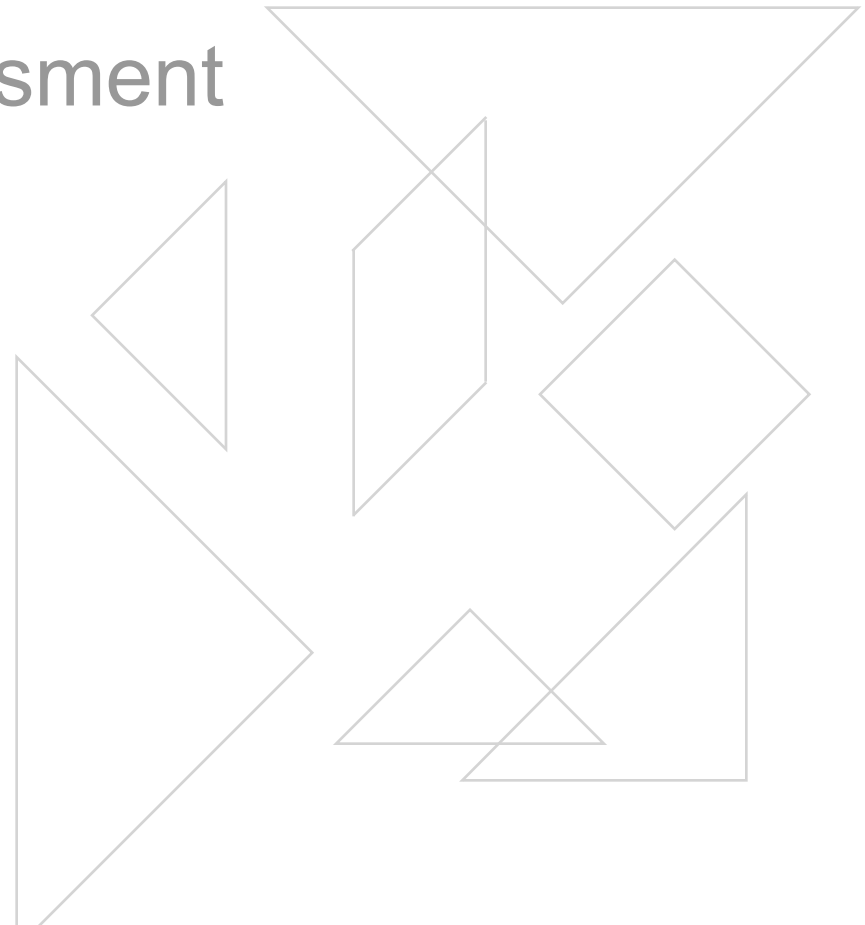
Mathematical Representations

Picture to Diagram



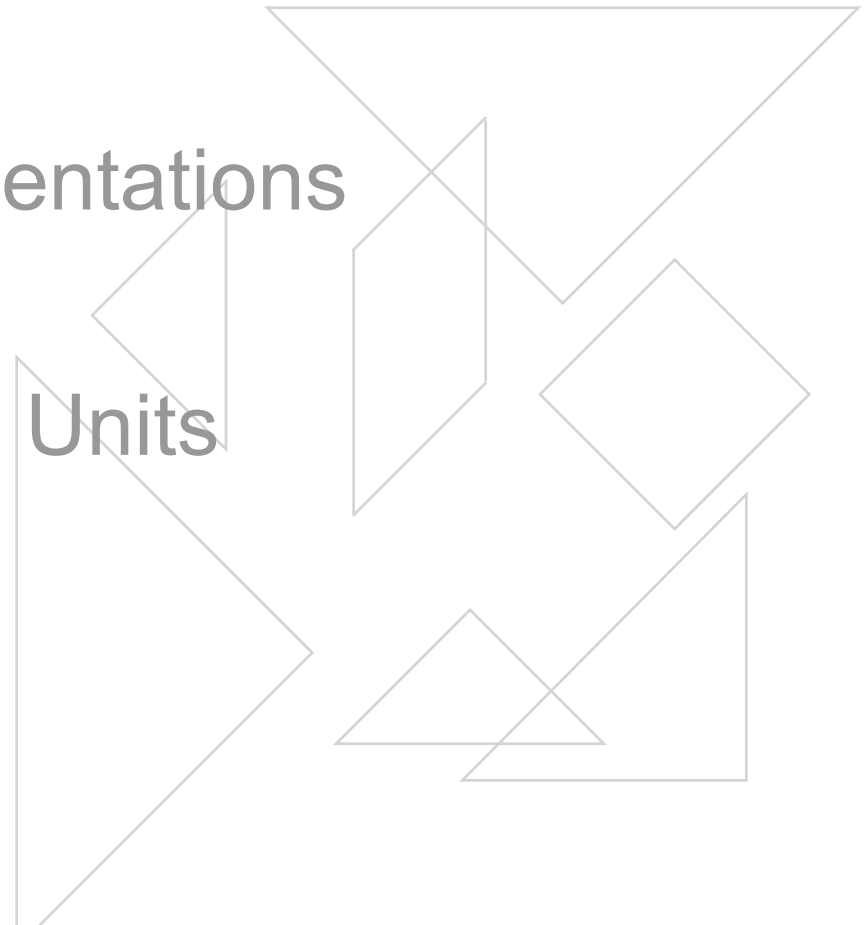
Mechanics

- ◆ Every step must be shown
- ◆ Verbal, Symbolic, and Graphic
- ◆ Transparency in Assessment
- ◆ The Rubric
- ◆ Formative Assessment
- ◆ Peer Assessment



Solutions

- ◆ Verbal: Written Solution in terms of the Context of the problem
- ◆ Graphic: Visual Representations
- ◆ Symbolic: Notation and Units



Tools

- ◆ Functional and Relational Cubism
- ◆ House Plan
- ◆ Mathgodz Websites
- ◆ USA Today Current Events
- ◆ Google
- ◆ Howstuffworks.com



Contact Information

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Please use the subject line in e-mails, so we can sort by topic & school



Thanks for coming!

