## Geometry - Unit 3: Parallel and Perpendicular Lines <br> Phoenixville Area School District

## Stage 1 Desired Results



## TRANSFER GOALS

Students will be able to independently use their learning to...

- Problem-Solving: Persistently apply various problem-solving strategies and organized approaches to accurately understand and solve problems and provide evidence to support response.
- Mathematical Vocabulary: Interpret mathematical vocabulary and apply proper terminology to engage in meaningful oral and written expression that communicates mathematical thinking, problem-solving methods, and rationale.
- Reasoning: Demonstrate mathematical resilience and conceptual understanding through the use of vocabulary, written expression, graphical representation, and alternate strategies.


## Meaning

UNDERSTANDINGS
Students will understand that..

- Mathematical ideas interconnect and build on one another to produce a coherent whole.
- One-, two-, and three-dimensional objects are described, classified, and analyzed by their critical attributes.
- The accurate measurement of space is determined by the ability to visualize the object/problem situation and apply an appropriate algorithm.

ESSENTIAL QUESTIONS
Students will keep considering..

- Have I represented the relationships between the quantities appropriately?
- What are the mathematical attributes of objects or processes and how are they measured or calculated?
- How are spatial relationships, including shape and dimension, used to draw, construct, model and represent real situations or solve problems?
- What does this quantity/number/ expression/value mean? What are the ways to represent it? Is there a best way?



## Stage 2 - Evidence

| Stage 2 - Evidence |  |  |  |
| :---: | :---: | :---: | :---: |
| Code A/M/T | Evaluative Criteria | Assessment Evidence |  |
| Acquisition <br> Meaning Making Transfer | Chooses effective strategy/strategies for solving the problem. <br> All representations are clear and labeled accurately. | PERFORMANCE TASK(S) <br> Students will demonstrate understanding (meaning making and transfer) through complex performance by... <br> City Design Project <br> Students will create a city using parallel lines, transversals, and angle relationships. <br> - Goal: Your task is to create a city with streets and buildings to the given specifications. <br> - Role/Audience: You are a city planner creating a town to the city council's specifications. <br> - Situation/Product: You will create a city a drawing with labels indicating the streets, buildings, and city name. <br> - Success Criteria: Your city drawing must include a city name, multiple named parallel streets, multiple named transversal streets, and buildings labeled and created at the specified locations to satisfy angle relationships. | Differentiation Considerations: |
| Acquisition <br> Meaning Making Transfer | Chooses effective strategy/strategies for solving the problem. <br> Explains one's reasoning efficiently using mathematics, words, or both. All representations are clear and labeled accurately. Solution is clearly identified; appropriate units are provided (if applicable). | -HER EVIDENCE <br> it Test <br> - Open-Ended Response <br> - Constructed Response | Differentiation Considerations: |

