## Geometry - Unit 1: Foundations of Geometry <br> Phoenixville Area School District

## Stage 1 Desired Results

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| PA Core Standards: CC.2.3.HS.A. 3 Verify and apply geometric theorems as they relate to geometric figures <br> CC.2.3.HS.A. 11 Apply coordinate geometry to prove simple geometric theorems algebraically. <br> CC.2.3.HS.A. 14 Apply geometric concepts to model and solve realworld problems | Transfer |  |
|  | TRANSFER GOALS <br> Students will be able to independently use their learning to... <br> - Problem-Solving: Persistently apply various problem-solving strategies and organized approaches to accurately understand and solve problems and provide evidence to support response. <br> - 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. <br> - Reasoning: Demonstrate mathematical resilience and conceptual understanding through the use of vocabulary, written expression, graphical representation, and alternate strategies. |  |
|  | Meaning |  |
|  | UNDERSTANDINGS <br> Students will understand that... <br> - Mathematics is a language of carefully defined terms and symbols. <br> - Postulates, theorems, definitions, and properties are used to justify reasoning in a direct proof and establish relationships involving two and three-dimensional figures. | ESSENTIAL QUESTIONS <br> Students will keep considering... <br> - What tools should I use here to be most efficient and effective? <br> - How do the tools of geometry such as definitions, theorems, and properties foster an increasing ability to spatially visualize and logically deduce conclusions? <br> - What are the mathematical attributes of objects or processes and how are they measured or calculated? |



## Stage 2 - Evidence

| Code A/M/T | Evaluative Criteria | Assessment Evidence |  |
| :---: | :---: | :---: | :---: |
| N/A | N/A | PERFORMANCE TASK(S) <br> Students will demonstrate understanding (meaning making and transfer) through complex performance by... | Differentiation Considerations: |
| Acquisition <br> Meaning Making | Uses <br> mathematics <br> vocabulary and notation concisely and correctly Valid conclusions are made based on given/ implied/ found information. All <br> representations are clear and labeled accurately. Solution is clearly identified; appropriate units are provided. | OTHER EVIDENCE <br> Unit Test <br> - Open Response <br> - Constructed Response Prompts | Differentiation Considerations: |

