## Geometry - Unit 4: Triangles

## 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.


## UNDERSTANDINGS

Students will understand that...

- The accurate measurement of space is determined by the ability to visualize the object/problem situation and apply an appropriate algorithm.
- Mathematicians think about reasonableness throughout the problemsolving process.
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Meaning
ESSENTIAL QUESTIONS
Students will keep considering..

- How are spatial relationships, including shape and dimension, used to draw, construct, model and represent real situations or solve problems?
- How do figures/quantities/numbers/ operations relate to one another?
- Have I represented the relationships between the quantities appropriately?
- How do I use the properties of right triangles for indirect measurement?
- Trigonometry is rooted in ratios within the right triangle.



## Stage 2 - Evidence

| Stage 2 - Evidence |  |  |  |
| :---: | :---: | :---: | :---: |
| Code A/M/T | Evaluative Criteria | Assessment Evidence |  |
| N/A | N/A | RFORMANCE TASK(S) ıdents will demonstrate understanding (meaning making and transfer) through complex formance by... | Differentiation Considerations: |
| Acquisition <br> $\begin{array}{c}\text { Meaning } \\ \text { Making } \\ \text { Transfer }\end{array}$ | Use <br> mathematics notation concisely and correctly. chooses effective for solving the problem. <br> Explains one's reasoning efficiently using mathematics, words, or both. All representations are clear and labeled Solution is clearly identified; appropriate units are provided (if applicable) | -HER EVIDENCE <br> iit Test A <br> - Multiple Choice <br> - Open-Ended Response <br> - Two-Column Proof <br> - Extended Response <br> iit Test B <br> - Multiple Choice <br> - Open-Ended Response <br> - Two-Column Proof <br> - Extended Response | Differentiation Considerations: |

