Apply Trigonometric Relationships in Solving Problems

Achieved	Merit	Excellence
Apply trigonometric relationships in solving problems.	Apply trigonometric relationships, using <u>relational thinking</u>, in solving problems.	Apply trigonometric relationships, using <u>extended abstract thinking</u>, in solving problems.

<u>Relational Thinking</u> - Involves selecting and carrying out a logical sequence of steps, connecting different concepts or representations, demonstrating understanding of concepts, and relating findings to a context.

<u>Extended Abstract Thinking</u> - Involves devising a strategy, identifying relevant concepts, developing logical reasoning, forming generalizations, and communicating mathematical insight.

Trigonometric Relationships

The relationships required in this standard include:

- ☐ Length of an arc of a circle
- ☐ Area of a sector of a circle
- ☐ Sine rule
- ☐ Cosine rule

Problems

The problems will be set in real-life or mathematical contexts and provide opportunities to apply knowledge and understanding of trigonometric concepts and methods.

Key Vocabulary

Students are expected to understand and use terms related to Sequences and Series, such as:

- ☐ Arc
- ☐ Sector
- ☐ Adjacent
- ☐ Cosine
- ☐ Hypotenuse
- ☐ Sine
- ☐ Opposite