

HS Mathematical Studies 2 Standards and Benchmarks Confirmed

Standard 1: Use a variety of strategies in the problem-solving process

Benchmarks:

- 1.1 Use a variety of strategies to understand new mathematical content and to develop efficient solution methods or problem extensions
- 1.2 Understand the components of mathematical modeling
- 1.3 Illustrate and solve problems with diagrams

Standard 4: Understand and apply basic and advanced properties of the concepts of measurement

Benchmarks:

- 4.1 Use unit analysis to solve problems involving unit conversion

Standard 5: Understand and apply basic and advanced properties of the concepts of geometry

Benchmarks:

- 5.1 Use basic operations on vectors
- 5.2 Understand the characteristics and use of vectors
- 5.3 Use geometric & trigonometric methods to solve problems in three dimensions

Standard 6: Understand and apply basic and advanced concepts of statistics and data analysis

Benchmarks:

- 6.1 Understand and apply the concept of the normal distribution
- 6.2 Understand and apply the concept of correlation and curve-fitting

HS Mathematical Studies 2 Standards and Benchmarks Confirmed

6.3 Understand and apply the Chi-Square test

Standard 8: Understand and apply basic and advanced properties of functions and algebra

Benchmarks:

- 8.1 Use a variety of methods to solve systems of equations and inequalities
- 8.2 Understand formal notation and various applications of sequences and series
- 8.3 Use a variety of models to represent functions, patterns and relationships
- 8.4 Use and apply basic concepts of set theory
- 8.5 Use and apply basic concepts of symbolic logic