

HS Pre-Calculus 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 Illustrate and solve problems with diagrams

Standard 2: Understand and apply basic and advanced properties of the concepts of numbers

Benchmarks:

- 2.1 Understand a variety of numerical and algebraic concepts

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

Benchmarks:

- 4.1 Understand the concepts of absolute and relative error

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

Benchmarks:

- 5.1 Understand that objects and relations in geometry correspond directly to objects and relations in algebra
- 5.2 Use trigonometric ratios to solve real world problems

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

Benchmarks:

- 6.1 Understand the different presentations of data

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6.2 Understand the measures of central tendency and variability

Standard 7: Understand and apply basic and advanced concepts of probability

Benchmarks:

7.1 Understand the concept of random variables

7.2 Understand the concept of combined events

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

Benchmarks:

8.1 Understand the algebraic concept of pattern

8.2 Understand the notion of function as a unifying theme in mathematics

8.3 Understand the circular functions and solve triangles using trigonometry