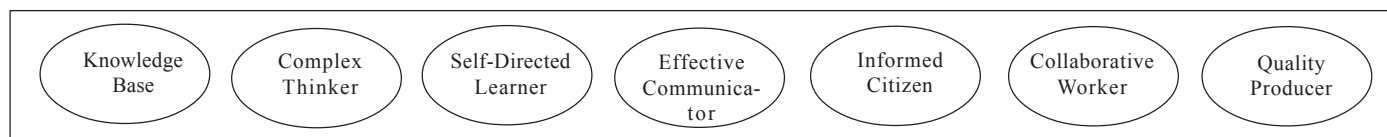


Central Bucks Student Learning Goals



Central Bucks Academic Standards Mathematics

Central Bucks schools teach, challenge and support every student to realize his or her maximum potential and acquire the knowledge and skills needed to:

2.1 Understand and Apply Concepts Related to Numbers, Number Systems, and Number Relationships

- A. Types of numbers (whole, prime, irrational, complex, etc.)
- B. Equivalent forms (fractions, decimals, percents, etc.)

2.2 Understand and Apply Concepts Related to Computation and Estimation

- A. Basic functions (addition, subtraction, multiplication, and division)
- B. Reasonableness of answers
- C. Calculators

2.3 Understand and Apply Concepts Related to Measurement and Estimation

- A. Types of measurement (length, time, etc.)
- B. Units and tools of measurement
- C. Computing and comparing measurements

2.4 Apply Mathematical Reasoning to Make Mathematical Connections with Other Disciplines

- A. Using inductive and deductive reasoning
- B. Validating arguments (if-then statements, proofs, etc.)

2.5 Select and Communicate Appropriate Problem Solving Strategies

- A. Problem solving strategies
- B. Representing problems in various ways
- C. Interpreting results

2.6 Solve Problems Using Statistics and Data Analysis

- A. Collecting and reporting data (charts, graphs, etc.)
- B. Analyzing data

Central Bucks Student Learning Goals



Central Bucks Academic Standards Mathematics

Central Bucks schools teach, challenge and support every student to realize his or her maximum potential and acquire the knowledge and skills needed to:

2.7 Understand and Apply concepts Related to Probability and its Role in Making Predictions

- A. Validity of data
- B. Calculating probability to make predictions

2.8 Use Algebraic Methods to Describe Patterns and Model Functions

- A. Equations
- B. Patterns and functions

2.9 Understand and Apply the Space and Dimensionality Concepts of Geometry

- A. Shapes and their properties
- B. Using geometric principles to solve problems
- C. *Three dimensional geometry*

2.10 Understand and Apply Concepts Related to Trigonometry

- A. Right triangles
- B. *Angle measurements*
- C. Measuring and computing with triangles
- D. Calculators and graphing calculators

2.11 Understand and Apply Concepts Related to Calculus

- A. *Study and application of limits*
- B. Comparing quantities and values
- C. Graphing rates of change
- D. Continuing patterns infinitely

Italics indicate a standard not found in the PA Standards.