

CED to Math Medic AP Precalculus Alignment

CED Units	Math Medic Units
Unit 1: Polynomial and Rational Functions	Unit 1: Exploring Rates of Change Unit 2: Polynomial and Rational Functions Unit 3: Constructing Functions
Unit 2: Exponential and Logarithmic Functions	Unit 4: Exponential Functions Unit 5: Logarithmic Functions
Unit 3: Trigonometric and Polar Functions	Unit 6: Exploring Sine and Cosine Functions Unit 7: Working with Trigonometric Functions Unit 8: Polar Functions

Math Medic AP Precalculus Unit 1: Exploring Rates of Change

CED Topic 1.1 Change in Tandem

- Lesson 1.1: Can We Predict Maximum Heart Rate?
- Lesson 1.2: How Does the Food Industry Set Prices?
- Lesson 1.3: What is the Business Cycle?

CED Topic 1.2 Rates of Change

- Lesson 1.4: What is Pamela's Current Speed?

CED Topic 1.3 Rates of Change in Linear and Quadratic Functions

- Lesson 1.5: How Much Does It Cost to Rent a U-Haul?
- Lesson 1.6: How Fast Does a Penny Fall from the Empire State Building?

Math Medic AP Precalculus Unit 2: Polynomial and Rational Functions

CED Topic 1.4 Polynomial Functions and Rates of Change

- Lesson 2.1: Can We Predict Stock Values?

CED Topic 1.5 Polynomial Functions and Complex Zeros

- Lesson 2.2: What's Up With the Zeros?
- Lesson 2.3: Who is the Fairest of Them All?

CED Topic 1.6 Polynomial Functions and End Behavior

- Lesson 2.4: The End is in Sight

CED Topic 1.7 Rational Functions and End Behavior

- Lesson 2.5: How Much Anesthesia Should the Patient Get?

CED Topic 1.8 Rational Functions and Zeros

- Lesson 2.6: The "Hole" Truth

CED Topic 1.9 Rational Functions and Vertical Asymptotes

- Lesson 2.6: The “Hole” Truth

CED Topic 1.10 Rational Functions and Holes

- Lesson 2.6: The “Hole” Truth

CED Topic 1.11 Equivalent Representations of Polynomial and Rational Expressions

- Lesson 2.7: Changing Forms
- Lesson 2.8: Let’s Be Rational
- Lesson 2.9: Where Are the Like Terms?

Math Medic AP Precalculus Unit 3: Constructing Functions

CED Topic 1.12 Transformations of Functions

- Lesson 3.1: Building a Library
- Lesson 3.2: What’s My Transformation?

CED Topic 1.13 Function Model Selection and Assumption Articulation

- Lesson 3.3: How Much Do I Pay for 4G Data?
- Lesson 3.4: Can You DTR?

CED Topic 1.14 Function Model Construction and Application

- Lesson 3.5: Do Females Live Longer Than Males?

Math Medic AP Precalculus Unit 4: Exponential Functions

CED Topic 2.1 Change in Arithmetic and Geometric Sequences

- Lesson 4.1: #Goals
- Lesson 4.2: Little Red’s Crumby Day

CED Topic 2.2 Change in Linear and Exponential Functions

- Lesson 4.3: Geri’s Greeting Cards

CED Topic 2.3 Exponential Functions

- Lesson 4.4: Game, Set, Flat

CED Topic 2.4 Exponential Function Manipulation

- Lesson 4.5: Exponential Match-Up

CED Topic 2.5 Exponential Function Context and Data Modeling

- Lesson 4.6: How Do You Grow Your Money?
- Lesson 4.7: How Often Should You Take DayQuil?

CED Topic 2.6 Competing Function Model Validation

- Lesson 4.8: Eating Out vs. Eating at Home

Math Medic AP Precalculus Unit 5: Logarithmic Functions

CED Topic 2.7 Composition of Functions

- Lesson 5.1: How Much Does It Cost to Tile a Pool?

CED Topic 2.8 Inverse Functions

- Lesson 5.2: How Much Should You Feed Your Puppy?
- Lesson 5.3: How Long to Reach the Summit?

CED Topic 2.9 Logarithmic Expressions

- Lesson 5.4: The Mystery Function

CED Topic 2.10 Inverses of Exponential Functions

- Lesson 5.4: The Mystery Function

CED Topic 2.11 Logarithmic Functions

- Lesson 5.5: Lumberjack Graphs

CED Topic 2.12 Logarithmic Function Manipulation

- Lesson 5.6: Puzzling with Properties

CED Topic 2.13 Exponential and Logarithmic Equations and Inequalities

- Lesson 5.7: Looking for “?”

CED Topic 2.14 Logarithmic Function Context and Data Modeling

- Lesson 5.8: What is a 6-Figure Salary?

CED Topic 2.15 Semi-log Plots

- Lesson 5.9: How has GDP Per Capita Changed Over Time?

Math Medic AP Precalculus Unit 6: Exploring Sine and Cosine Functions

CED Topic 3.1 Periodic Phenomena

- Lesson 6.1: How Much Air Is in Your Lungs?

CED Topic 3.2 Sine, Cosine, and Tangent

- Lesson 6.2: Can You Measure That in Twizzlers?
- Lesson 6.3: Trig Ratios in the Wild

CED Topic 3.3 Sine and Cosine Function Values

- Lesson 6.4: Coming Full Circle

CED Topic 3.4 Sine and Cosine Function Graphs

- Lesson 6.5: Spaghetti Waves

CED Topic 3.5 Sinusoidal Functions

- Lesson 6.5: Spaghetti Waves

CED Topic 3.6 Sinusoidal Function Transformations

- Lesson 6.6: Which One Doesn't Belong?

CED Topic 3.7 Sinusoidal Functions Context and Data Modeling

- Lesson 6.7: It's Getting Hot Out Here!

Math Medic AP Precalculus Unit 7: Working with Trigonometric Functions

CED Topic 3.8 The Tangent Function

- Lesson 7.1: How Are the Slopes Changing?

CED Topic 3.9 Inverse Trigonometric Functions

- Lesson 7.2: Caution: Restricted Area

CED Topic 3.10 Trigonometric Equations and Inequalities

- Lesson 7.3: It's Getting Hot Out Here! (Part 2)

CED Topic 3.11 The Secant, Cosecant, and Cotangent Functions

- Lesson 7.4: Is There More to Explore?

CED Topic 3.12 Equivalent Representations of Trigonometric Functions

- Lesson 7.5: Identity Crisis
- Lesson 7.6: Break It Down!

Math Medic AP Precalculus Unit 8: Polar Functions

CED Topic 3.13 Trigonometry and Polar Coordinates

- Lesson 8.1: Supervising the Sky
- Lesson 8.2: Why so Complex?

CED Topic 3.14 Polar Functions Graphs

- Lesson 8.3: A Polar Phenomenon (Part 1)
- Lesson 8.4: A Polar Phenomenon (Part 2)

CED Topic 3.15 Rates of Change in Polar Functions

- Lesson 8.5: What's Going On in This Graph?