

CPM Algebra 2 Objective Roadmap

Students will have the opportunity to:

Unit 1 — Day 14 Sharpening Pencils: Exploring Functions (EF)

- Start to learn what it means to investigate a function. (**Exploring Functions**)
Problems: EF-12, EF-29, EF-30, EF-51, EF-70, EF-71, EF-73, EF-85, EF-86, EF-87, EF-88, EF-89

Unit 2 — Day 27 The Bouncing Ball: Sequences (BB)

- Find the x- and y-intercepts of a quadratic equation. (**Milepost 1**)
Problems: BB-62, Milepost Number 1 1-10
- Graph a line using slope and y-intercept. (**Milepost 2**)
Problems: BB-66, Milepost Number 2 1-10
- Simplify expressions with positive exponents. (**Milepost 3**)
Problems: BB-107, Milepost Number 3 1-24

Unit 3 — Day 40 Fast Cars and Depreciation (FX)

- Solve systems of linear equations in two variables. (**Milepost 4**)
Problems: FX-36, Milepost Number 4 1-12
- Multiply polynomials. (**Milepost 5**)
Problems: FX-112, Milepost Number 5 1-12
- Factor quadratic expressions. (**Milepost 6**)
Problems: FX-139, Milepost Number 6 1-10

Unit 4 — Day 53 The Gateway Arch: Parabolas and Other Parent Graphs (PG)

- Solve for one variable in an equation or formula with two or more variables. (**Milepost 7**)
Problems: PG-30, Milepost Number 7 1-12
- Find the slope of the line through two given points and the distance between two points. (**Milepost 8**)
Problems: PG-53, Milepost Number 8 1-9
- Use function notation and calculate domain and range. (**Milepost 9**)
Problems: PG-149, Milepost Number 9 1-9

Unit 5 — Day 66 The Toy Factory: Linear Systems and Matrices (LS)

- Write the equation of a line given two points. (**Milepost 10**)
Problems: LS-53, Milepost Number 10 1-9
- Understand slopes of parallel and perpendicular lines. (**Milepost 11**)
Problems: LS-110, Milepost Number 11 1-10
- Graph linear inequalities. (**Milepost 12**)
Problems: LS-149, Milepost Number 12 1-4

Unit 6 — Day 79 The Case of the Cooling Corpse: Logarithms and Other Inverses (CC)

- Multiply and divide rational expressions. (**Milepost 13**)
Problems: CC-42, Milepost Number 13 1-8
- Solve rational equations. (**Milepost 14**)
Problems: CC-76, Milepost Number 14 1-10

- Add and subtract rational expressions. (**Milepost 15**)
Problems: CC-124, Milepost Number 15 1-10
- Simplify integral and rational exponents. (**Milepost 16**)
Problems: CC-136, Milepost Number 16 1-21

Unit 10 — Day 92 Policy Making: Probability (PM)

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