

Prospect HS Math Department

PTSA Meeting November 29, 2018



Overview

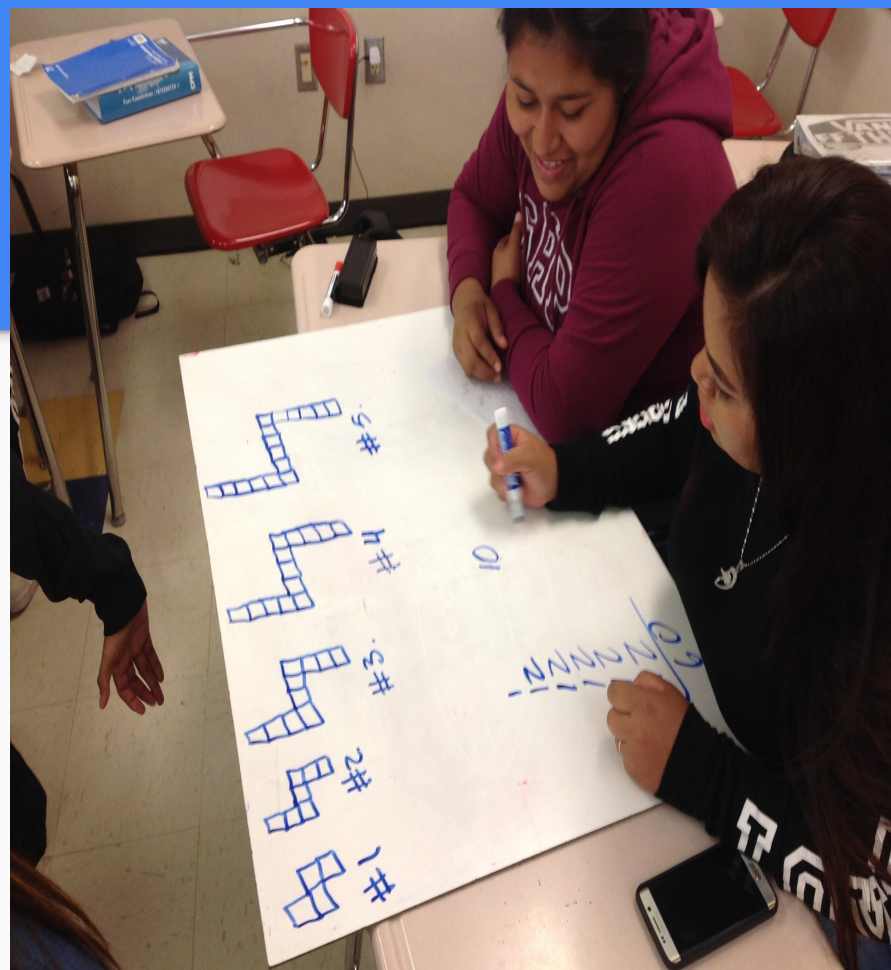
- CPM
 - PDs and Collaborations
 - Teaching Strategies
 - Progression
- Parents to work on a student activity
- Demo
 - Parent Guide & Resources
- Extra Help

Updates

- Four full-day PDs scheduled for Phase I IM teachers.
- Three full-day PDs scheduled for Phase II IM teachers.
- Each IM team organizes collaborations as needed and shares common resources with each other.

Our Teaching Strategies

- Group activity with assigned roles for exploratory problems
- Direct instructions
- Additional online tools and resources
- Review & Preview



Examples of Teaching Strategies to motivate students

- I spy
- Think(Ink) Pair Share
- Find the mistakes
- Huddle

IM1:

Chapter 1: Functions

Chapter 2: Linear Functions

Chapter 3: Transformations and Solving

Chapter 4: Modeling

Two-Variable Data

Chapter 5: Sequences

Chapter 6: Systems of Equations

Chapter 7: Congruence and

Coordinate Geometry

Chapter 8: Exponential Functions

Chapter 9: Inequalities

Chapter 10: Functions and Data

Chapter 11: Constructions and Closure

IM2:

Chapter 1: Exploring Algebraic and Geometric Relationships

Chapter 2: Justification and Similarity

Chapter 3: Probability and Trigonometry

Chapter 4: Factoring and More Trigonometry

Chapter 5: Quadratic Functions

Chapter 6: More Right Triangles

Chapter 7: Proof and Conditional Probability

Chapter 8: Polygons and Circles

Chapter 9: Modeling with Functions

Chapter 10: Circles and More

Chapter 11: Solids

Chapter 12: Counting and Closure

IM3/STEM:

Chapter 1: Investigations and Functions

Chapter 2: Transformations of Parent Graphs

Chapter 3: Solving and Inequalities

***Chapter 4: Normal Distributions and Geometric Modeling**

Chapter 5: Inverses and Logarithms

***Chapter 6: Simulating Sampling Variability**

Chapter 7: Logarithms and Triangles

Chapter 8: Polynomials

Chapter 9: Trigonometric Functions

Chapter 10: Series

Chapter 11: Rational Expressions and Three-Variable Systems

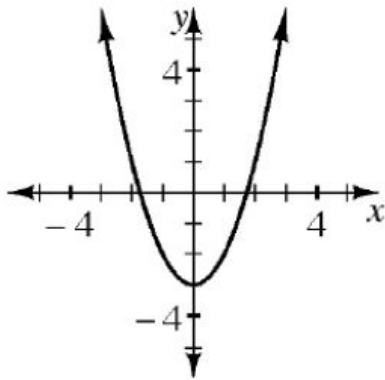
Chapter 12: Analytic Trigonometry

*** Not covered in STEM. STEM has additional topics: Trig equations; Sinusoids; Expanded Trig Equations**

IM1/2/3/STEM Progression

Example of Quadratic Function

IM1: Reflection
Symmetry



IM2: Solving a quadratic
equation

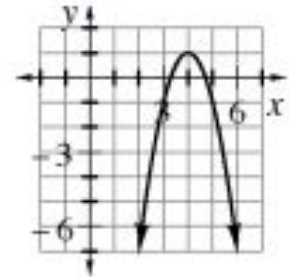
$$0 = x^2 + 6x + 8$$

$$(x + 4)(x + 2) = 0$$

$$(x + 4) = 0 \text{ or } (x + 2) = 0$$

$$x = -4 \text{ or } x = -2$$

IM3/STEM:
Transforming a
quadratic function



Student Activity

1. Each team consists of four adults
2. Discuss and decide each member's duty
3. Resource Manager to pick up the handout and required materials
4. Start activity and use Geogebra (Reflection) to help work on problem 3-4

<https://tinyurl.com/PTSA-CPM>

5. Closure

Chromebook login:

User name: presenter@cuhsd.org

Password: presenter

Geogebra tool:

<https://tinyurl.com/PTSA-CPM>

Live Demo: CPM Parent Resources

PHS School website → Academic Offerings → Math

<https://prospect.cuhsd.org/>

Parent resources at student's ebook



CPM
CC Integrated I
Home
Logout
cchang.cuhsd.org

- Introduction
- Chapter 1
- Chapter 2
- Chapter 3
- Chapter 4

Student Support

[eTools](#)[Homework Help](#)[Learning Logs](#)[Math Notes](#)[Parent Guide](#)[Resource Pages](#)[Weekly Tips](#)

Parent Guide with Extra Practice

Sometimes students want an alternative explanation of an idea along with additional

[Translate](#)[Calculators ▲](#)[Tools ▲](#)[CPM Assessment](#)[CPM Help](#)[CPM Tutorials](#)

Extra Help

- Study hall and individual appointment time with IM teacher.
- Two Spanish/English translators.
- Afterschool IM1 recovery (4 times/week 2:30~3:30PM).
- Volunteer student tutor available at study hall, lunch, or afterschool.
- A math teacher is stationed every Wednesday at the Homework center.