

# West York Area Middle School Parent Night for Mathematics

Welcome



Rigorous

Aligned

Balanced

Accessible



# Opening

Mr. Anthony Campbell, Principal

- Introductions
- Agenda for the Evening
- Goals for the Evening



Rigorous

Aligned

Balanced

Accessible



# Questions???

Please use the Index Cards provided to write any question/questions you have. Hold them up so we can collect them.



**Rigorous**

**Aligned**

**Balanced**

**Accessible**



# Parent Night Agenda

- Best Practices in Math Instruction
- The Research Base
- The Student Centered Classroom
- Optional Workshops



**Rigorous**

**Aligned**

**Balanced**

**Accessible**



# Necessary Shifts in Mathematics Instruction



**Emphasizing Memorizing Facts & Procedures through Repetitive Practice**

**Implementing Challenging Tasks, Productive Struggle, Mathematical Discourse, & Developing Positive Student Mathematical Identities**

NCTM, Taking Action © 2017



**Rigorous**

**Aligned**

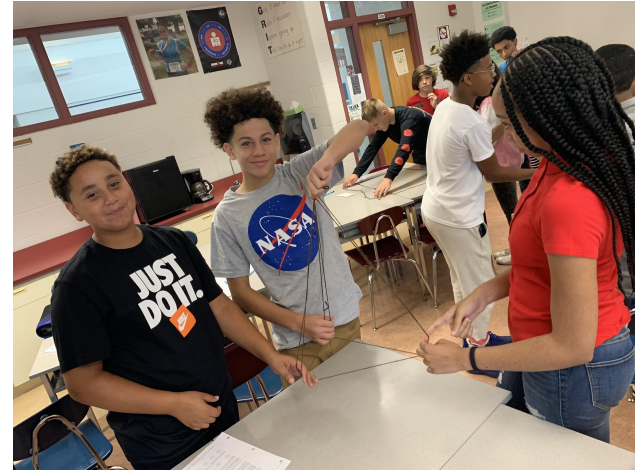
**Balanced**

**Accessible**



- **Social interaction** increases the ability of students to learn ideas
- The integration of knowledge is best supported by **engaging a wide array of problems** around a single idea
- Long-term retention and transfer of knowledge are best supported by **spaced learning**

# The Research



**Rigorous**

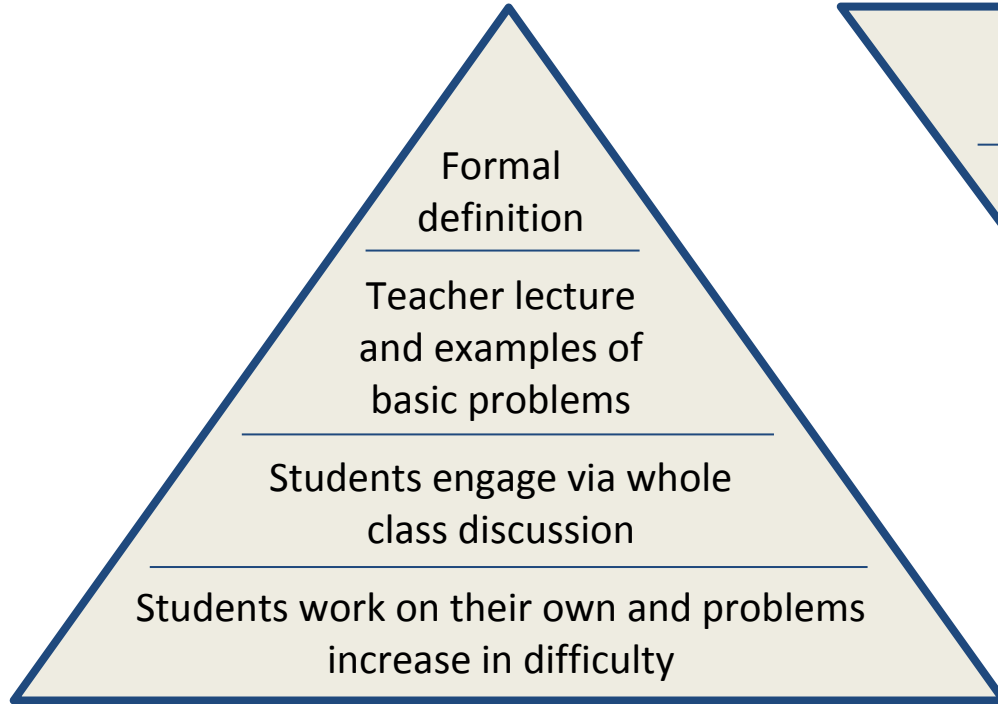
**Aligned**

**Balanced**

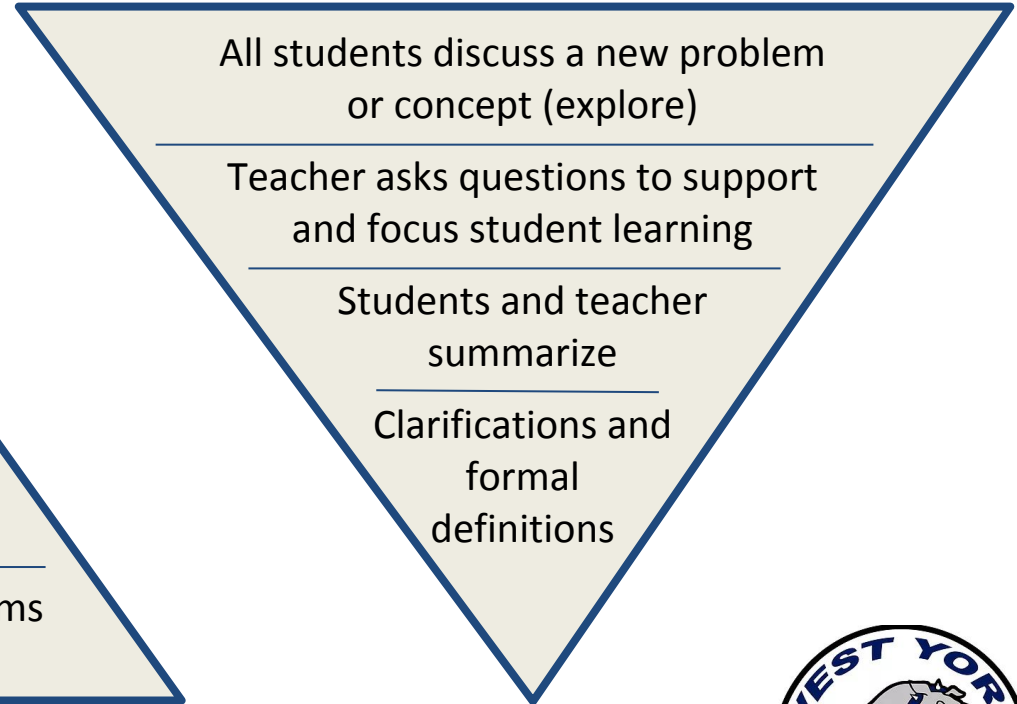
**Accessible**



# Teacher Centered Lecture Based Learning



# Student Centered Problem Based Learning



**Rigorous**

**Aligned**

**Balanced**

**Accessible**



# For More Information

- Research Based
  - Collaborative Learning
  - Problem Based Learning
  - Mixed Spaced Practice

*We have more  
information on  
the school  
website*



**Rigorous**

**Aligned**

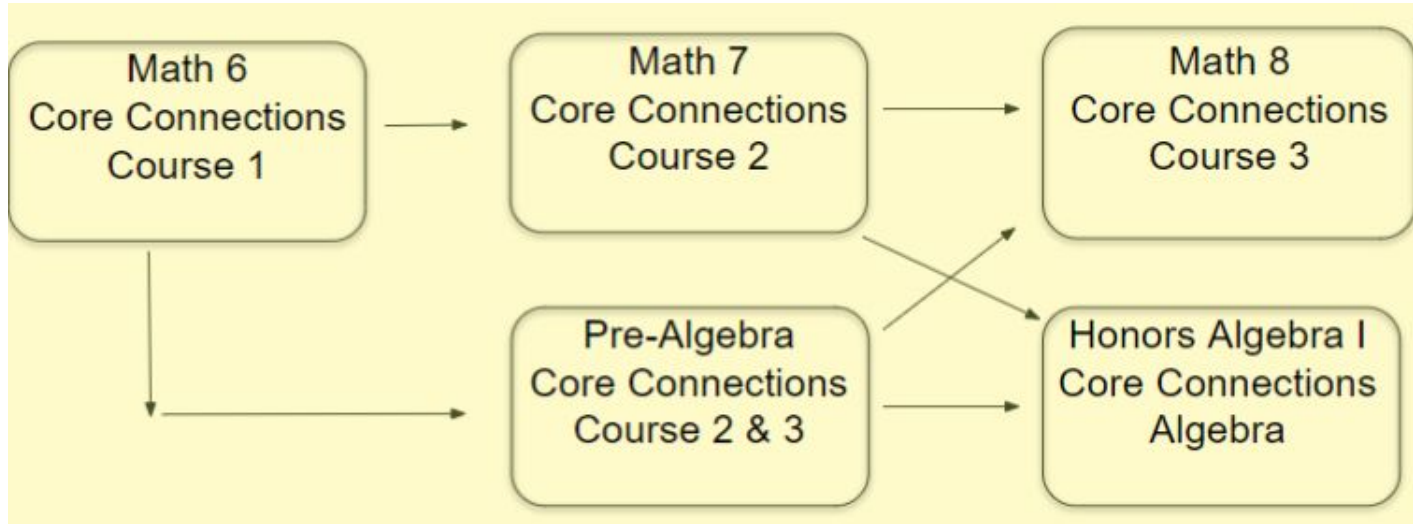
**Balanced**

**Accessible**





# Mathematical Progression



Rigorous

Aligned

Balanced

Accessible



# Support Resources

- Online Homework Support
  - [homework.cpm.org](https://homework.cpm.org)
- Parent Support Site
  - [cpm.org/parent-support](https://cpm.org/parent-support)



Rigorous

Aligned

Balanced

Accessible



# Standards for Mathematical Practice

- Make sense of problems and persevere in solving them.
- Reason abstractly and quantitatively
- Construct viable arguments and critique the reasoning of others
- Model with mathematics



**Rigorous**

**Aligned**

**Balanced**

**Accessible**



# Standards for Mathematical Practice

- Use appropriate tools strategically
- Attend to precision
- Look for and make use of structure
- Look for and make sense of regularity in repeated reasoning



**Rigorous**

**Aligned**

**Balanced**

**Accessible**



# Optional Workshop

Workshop Choices (Choose up to 3):

- What is my child doing in math class? Student demonstrations of CPM activities - [Room 121](#)
- What resources are available to help my child be successful? An explanation of available student and parent resources - [Room 122](#)
- What is the ebook and how can we use it at home? ebook log-in and feature demonstration - [Room 125](#)



**Rigorous**

**Aligned**

**Balanced**

**Accessible**



# In Closing

Stay involved. Ask what they are doing in math class, allow them to teach you the methods they are learning in class.

## Thank you for attending!



**Rigorous**

**Aligned**

**Balanced**

**Accessible**



# Optional Workshop

Workshop Choices (Choose up to 3):

- What is my child doing in math class? Demonstrations of CPM activities - [Room 121](#)
- What resources are available to help my child be successful? An explanation of available student and parent resources - [Room 122](#)
- What is the ebook and how can we use it at home? ebook log-in and feature demonstration - [Room 125](#)



**Rigorous**

**Aligned**

**Balanced**

**Accessible**

