

Standards for Mathematical Practice

Make Sense of Problems and Persevere in Solving Them

#1

- Sense making
- Work on a novel problem
- Work on their flexibility with different strategies to persevere

Model with Mathematics

#4

- Turn math story into numbers, math language, drawings, objects, etc.
- Explain their work and how it makes sense with the story/problem

Look for and Make Use of Structure

#7

- Students notice and describe patterns
- Students use patterns to solve problems

Reason Abstractly and Quantitatively

#2

Identify :

- quantities in a problem
- what quantities represent (ie. # of miles)
- relationship between quantities

Use Tools Strategically

#5

- Have access to lots of math tools
- Decide when to use which tool
- Use tools: estimation, manipulatives, number lines, etc.

Look for and Express Regularity in Repeated Reasoning

#8

- Students discover patterns in math they can use in the future
- Students test and try patterns to see if they work everytime
- Students discover strategies

Construct Viable Arguments and Critique the Reasoning of Others

#3

- Explain their thinking
- Use visual models or calculations to show thinking
- Defend and justify work

Attend to Precision

#6

Use clear and precise language & quantities:

- Units
- Math terminology
- Meaning of symbols