

MATHEMATICAL MODELING

Questions and Sentence Stems to Support Students' Equitable Participation

Mathematical Modeling Process



Problem Posing

- What do you notice?
- What do you wonder?
- What questions do I have?
- How can math help me solve a problem?

- I notice...
- I wonder...
- I can use math to ...

Making Assumptions & Defining Variables

- What information/data do I need?
- What quantities are important?
- What assumptions do I need to make?

- If I knew _____ then I can figure out _____
- I need to assume that...

Building a Model

- What math can I use?
- How can I describe/predict the situation using math?
- How can I use math to make decisions?

- I can describe...
- I can predict...
- I solved the problem using...strategy

Analyze & Interpret

- Does the solution make sense?
- Is there another solution to consider?
- How does this solution apply to different problems?

- My solution is similar/different than...
- My solution makes sense/ is reasonable because...
- I can use this solution to other problems like...

Revise, Refine and Report

- What might I consider in my next model to revise or refine my solution?
- How can I share my solution?
- What might change if I considered other information?
- Next time, I will consider...
- I can use this solution to ...
- I can make my solution more precise by...

Math Modeling

RJ Alexander



Math Modeling:

Reviewing **Math Modeling**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Math Modeling**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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