WHAT'S THE PROBLEM??

A television personality made the following comments about NBA basketball player John Stockton:

"Who is more unique than a John Stockton? A 40-year-old point guard who gives 110% every night! Most 40-year-olds are sitting in their rocking chairs with a cold one right now—not out on the court setting countless back screens on guys twice their sizes and half their ages...he's one of the greatest players in the history of the game."

MORPHOLOGY AND ETYMOLOGY TO IMPROVE UNDERSTANDING

- Word Histories

THINGS TO THINK ABOUT...

- Why do students have difficulty learning mathematics vocabulary?
- What are the best ways to develop students' understanding of mathematics terminology?
Negotiating the Language of Mathematics

- Common English words with special math definitions
- Technical mathematical words
- Need to understand concepts embedded within other concepts
- Varied use and large number of math symbols, graphics and systems
- Conceptual density of mathematics texts

Structural Analysis

- Word Study

Vocabulary List

- Taxonomy by grade levels
- Who teaches what and when

Verbs and Symbols

- What is the action?
Nouns and Concepts

What is the meaning in specific terms?

Vocabulary Development Strategies

Use these with the kiddos!

Gets the students thinking about learning math vocabulary

Students are ACTIVELY building and assimilating math vocabulary

Some Math Vocabulary Development Strategies:

- Concept Circles
- Concept Definition Mapping
- Frayer Model
- List-Group-Label
- Semantic Feature Analysis
- Semantic Mapping
- Taxonomies
- Student VOC Strategy
- Verbal & Visual Word Association
- Word/Number Sort
- Concentration
- Cue Cards
- Number Cubes
- Keeping a Journal
- Venn Diagrams

Concept Circles
Verbal & Visual Word Association

Vocabulary term:

Visual Representation:

Definition:

Personal Association:

Cue Cards

Set of cards for each student:

<table>
<thead>
<tr>
<th>n</th>
<th>7</th>
<th>n + 7</th>
<th>n - 7</th>
<th>7n</th>
</tr>
</thead>
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Cue cards:

- A number \( n \) is less than 7
- A number \( n \) decreased by 7
- \( n \) less than a number \( n \)
- \( n \) divided by a number \( n \)
- \( n \) subtracted from a number \( n \)
- The product of \( n \) and \( 7 \)
- \( n \) times a number \( n \)
- \( n \) is greater than a number \( n \)

Others? Let’s Brainstorm!

100 NO EXCUSE LIST of Math Terms