MALLI PRACTICES

• Mathematical Vocabulary
• Mathematical Literacy
• Mathematical Discourse
MATHEMATICAL VOCABULARY

<table>
<thead>
<tr>
<th>Everyday</th>
<th>Mathematics</th>
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<tbody>
<tr>
<td>guess</td>
<td>estimate</td>
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<tr>
<td>cross</td>
<td>intercept</td>
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<tr>
<td>problem</td>
<td>equation</td>
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<tr>
<td>steps</td>
<td>algorithm</td>
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<td>of</td>
<td>?</td>
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<td>and</td>
<td>?</td>
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<td>triangle</td>
<td>triangle</td>
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<td>?</td>
<td>obtuse</td>
</tr>
<tr>
<td>?</td>
<td>run</td>
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- Look it up!
- Just use the context!
- Skip it and you’ll learn it later.
- Front loading
- Semantic Grid
- Omit target word in sentence – analyze
- Sentence walls – not just word walls
- Examine root/history of words
- Use objects!
- Be consistent in use of terms
MATHEMATICAL LITERACY

Read and Write vs. Participate in disciplinary practices and discourses

- Learning logs/Math Journals
- Shared writing
- Class book with math problems
- Multimedia/Multimodal lessons
- Project based learning
- Explicit instruction and modeling
MATHEMATICAL DISCOURSE

- Explaining ideas
- Justifying ideas
- Using symbolic systems and artifacts
- Providing precise, brief and logically coherent arguments
- Abstracting
- Generalizing
- Evaluating and comparing ideas

- Revoicing
- Agreeing/Disagreeing
- Stimulating elaborate answers
- Wait time
- Consider physical and emotional characteristics of the environment
- Group work/Think-Pair-Share
- Modeling
- Teach how to collaborate
- Ask questions with different functions
- Sometimes, Always, Never