We will use pictures, numbers, and words in solving story problems.

(We will use multiple strategies to preserve)

Standards and Mathematical Practices

4. New Bugs

I added more.

I drew 5 bugs.

Words

Strategy 4

On the next additional bugs landed

How many additional bugs landed

85 total

More bugs come

15 bugs a

Draw Sense

Make Sense

(Interative Session)

People can understand it.

Our thinking go other

How do we show word

Solving Story Problems

How do we write our own story problems?
UNIT PLANNING TOOL

**Unit 3: Problem Solving**

CCSSM:2OA.1 Use + and - within 100 to solve
- one and two-step word problems,
- adding to, putting together
- taking from, taking apart
- comparing
by using drawings and equations with
a symbol for the unknown problem.

**Math Practices being emphasized:**
1) Make sense of problems and persevere in solving them.
2) Reason abstractly and quantitatively.
3) Construct viable arguments and critique the reasoning of others.
4) Model with mathematics.

**Essential Questions**

How do we solve word problems?
How do we show our thinking so other people understand it?
How do we write a story problem?

**Pre and Post Assessments**

Math riddles
Picture count
Hungry ant picture #4
CFA #5
Student written problems

**Key Concepts**

- Flexibility in using multiple strategies to solve problems by understanding the context.
- Communicating thinking using words, objects, pictures, and equations.

**Visual Models of Concepts - Essential Questions**

How do we solve word problems?
How do we show our thinking?
How do we write a story problem?

**Algorithms/Diagrams/Model**

Information

- Draw
- Make Sense

Question

- Strategies
- Words

**Connections (Real World Applications)**

- Ant story problems grounded in information that students are studying.
- Giving example problems based on classroom data.
  - We have 22 sharp pencils. We need 30 pencils in all. How many more do we need to sharpen?
I drew __ because ___.
You add __ plus ___.
I subtracted __ minus ___.
Next I would ___.
I __ to find the answer.

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<th>Solution</th>
<th>Add</th>
<th>Vocabulary</th>
<th>Subtract</th>
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<td>equation</td>
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<tr>
<td>number sentence</td>
<td>repeated addition</td>
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Focus and Motivation

You Tube - "Solve Me Maybe" - Elementary Math Problem Solving Steps
Chants - Addition Bugalo: Ants Here, Ants There; Ant songs
Literature - The Grapes of Wrath by Greg Tang (playing with language, math riddles, Fish School & Ant Attack)