

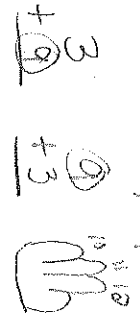


Addends  
 $3 + 2 = 5$   
 Sum  
 Addition sign  
 Equal sign  
 Plus sign

# Addition Strategies

What are strategies that help us add?

Counting On

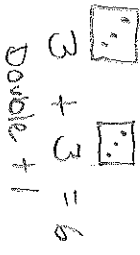


I start at 3 and add 3 more.

(Interactive area - use laminator or clear tape)



Double



Double + 1  
 $3 + 4 = 7$

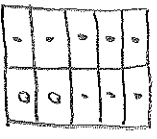
Double + 2  
 $3 + 5 = 8$

I'll use the double strategy - plus is... and plus is...

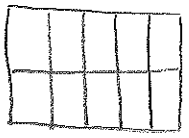
and     plus     more is    .

Make-ten

$8 + 3 = 11$



    +     makes 10. I add     more. That makes    .



What we know about addition

Inquiry Chart

What we want to learn about addition

1st Grade, OA  
A15 Stepping Stones

What are rules about addition?

In addition, the order of the addends doesn't matter.

$3 + 5 = 8$



(tape blocks)

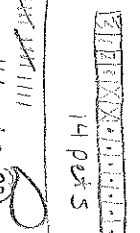
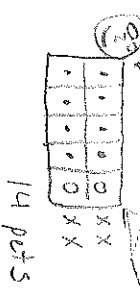
We add numbers that are easiest to group first.

$7 + 4 + 3 = 14$



M5.     has     cats,     dogs and     fish. How many pets does she have?

$2 + 4 + 3 =$



14 pets

1) We will use strategies to solve addition problems.

## Standards and Mathematical Practices

2) We will solve word problems with 3 numbers and explain our thinking to others.



Module 7: Addition Strategies **UNIT PLANNING TOOL**  
 Unit 7: Addition Strategies  
 CCSSM: (connecting with module 2+6)  
 See attached.

Math Practices being emphasized:  
 - Reason abstractly and quantitatively  
 - Look for and make use of structure

**Essential Questions**

When do we use the make-ten strategy?  
 How does using addition strategies help us solve problems faster?

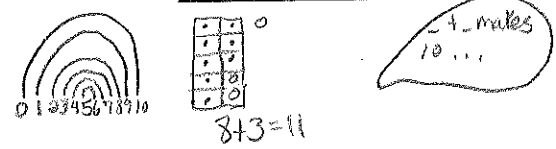
**Pre and Post Assessments**

Pretest - Stepping Stones Module 7  
 Posttest - Check-up module 7 and open response word problem

**Key Concepts**

- Make-ten strategy
- Solving word problems adding 3 numbers
- Understand the Commutative and Associative Properties of addition

**Visual Models of Concepts**



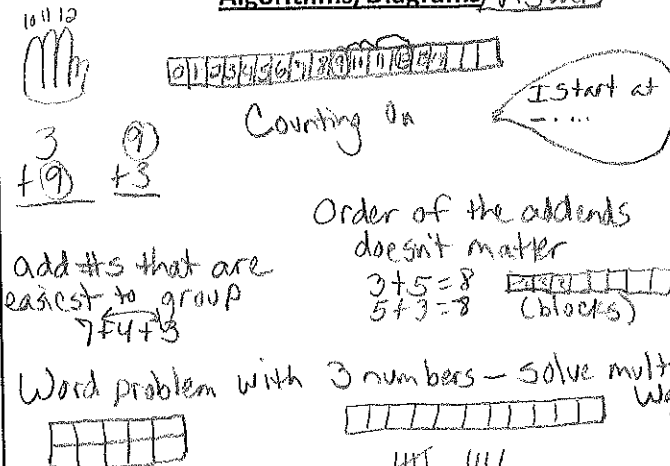
8+3=11

+ makes 10...

Double  
 Double +1  
 Double +2

I'll use the double...

**Algorithms/Diagrams/Visuals**



Counting On

I start at ...

Order of the addends doesn't matter  
 $3+5=8$   
 $5+3=8$  (blocks)

Add #'s that are easiest to group  
 $7+4+3$

Word problem with 3 numbers - solve multiple ways

**Connections (Real World Applications)**

- \* highlight real situations in classroom where using addition
- \* Word problems that students can relate to from home and school experiences (\* Key for EL students)

<p>— plus — makes 10</p>	<p><u>Language Functions/Structures</u></p>	<p>To add — plus —, I start at — and — more. (counting on)</p>
<p>— plus — equals —</p>		<p>— plus — makes ten. Then I add — more. (make ten)</p>
<p>The sum of — and — is —,</p>		<p>— plus — is — plus <u>10</u> more is — (doubles)</p>
<p>I think it's — because —.</p>		<p>Double — is — plus <u>10</u> is —.</p>

<p>turnaround fact</p>	<p>make-ten</p>	<p><u>Vocabulary</u></p>	<p>number sentence equals 'the same as'</p>
<p>addition</p>	<p>counting on</p>		<p>order</p>
<p>subtraction</p>	<p>double</p>	<p>plus two</p>	<p>first</p>
<p>addend</p>	<p>double plus one, plus two</p>		<p>second</p>
<p>sum</p>	<p>strategy (ies)</p>		
<p>counting all</p>	<p>equation</p>		

<p><u>Focus and Motivation</u></p>	
<p>Lesson #1 - book How Many Legs? plus activity</p>	
<p>Addition Bugaloo chart</p>	
<p>Ten Flashing Fireflies (book) by Philemon Sturges</p>	
<p>BrainPop Jr. - Basic Addition, Make 10</p>	
<p>On line Game Stepping Stones - Three Sum</p>	

On completion of this module the students should be able to:

## Operations and Algebraic Thinking

**Represent and solve problems involving addition and subtraction.**

1.OA.2

Write and solve addition word problems with three one-digit numbers

**Understand and apply properties of operations and the relationship between addition and subtraction.**

1.OA.3

Use the commutative property of addition

Use the associative property of addition

**Add and subtract within 20.**

1.OA.6

Use a strategy (make-ten) for addition facts

Fluently add within 10

## Geometry

**Reason with shapes and their attributes.**

1.G.3

Represent one-half