

# Bug Ten Frames

A Common Core State Standards Aligned Activity for

# 100 BUGS!

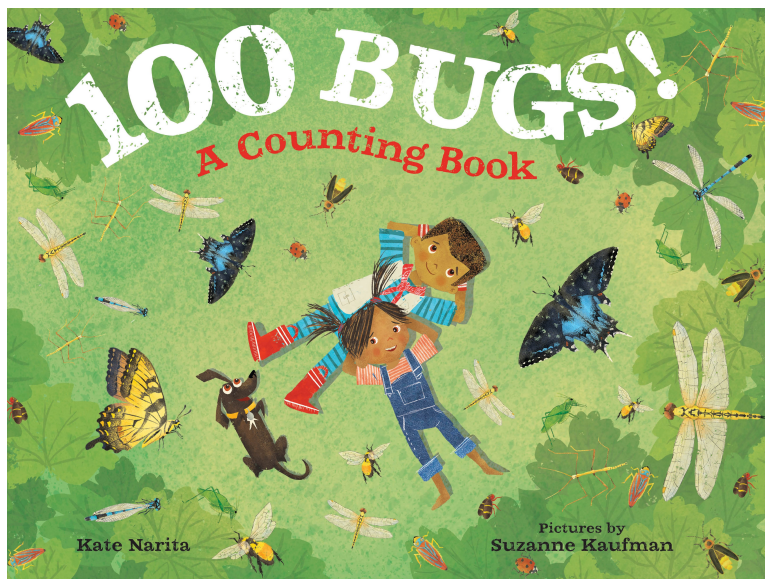
## A Counting Book

FARRAR STRAUS GIROUX  
New York

Written by Kate Narita

Illustrated by Suzanne Kaufman

ISBN: 978-0374306311



“Packed with great extension possibilities, visually engaging illustrations, and quick rhymes, this read-aloud would be a great addition to any

STEM shelf.” —Kirkus Review



# Meet the Team

**Kate Palaces Narita** is the author of *100 Bugs! A Counting Book*. When she's not out and about driving, teaching fourth grade or cheering on her two teenage sons, Kate lives, writes, and hikes on a small mountain in central Massachusetts. There's a magical part of Mt. Wachusett in every one of her stories. Be it small wonders like darting dragonflies and gorgeous garden phlox, or large wonders like munching moose and beautiful balsam firs, she celebrates nature's bounty each and every day. Visit her at [www.katenarita.com](http://www.katenarita.com).



**Suzanne Kaufman** is an author, illustrator, animator and lover of school potlucks. She is the author-illustrator of *Confiscated* and *I Love Monkey*. Her previously illustrated work includes books: *All Are Welcome*, *100 Bugs*, *Naughty Claudine Christmas*, and *Samanthasaurus Rex*. Over the years, she's done everything from animating special effects for Universal Television and Discovery Channel, to animating award-winning video games for children. When not tramping through the wilds of the Pacific Northwest, you will find her teaching animation or working in her studio. She lives in Seattle with her husband and two creative daughters of her own. Visit her at [www.suzannekaufman.com](http://www.suzannekaufman.com).













**Lisandra Flynn** is an editor turned elementary school teacher who works with Kate. She has a flair for design and enjoys creating learning resources for her students and fellow teachers. When she's not teaching or tediously reorganizing her classroom, Lisandra enjoys hiking, crafting, and decorating her home in central Massachusetts, which she shares with her husband, baby boy, and two feisty cats.



# Bug Ten Frames

Create ten frames with your class. Ask students to draw the insects from the book or print out the attached copies of illustrator Suzanne Kaufman's bugs. Then, have ten students come to the front of the classroom. Arrange the students in two rows of five. For the walkingstick page, one student should stand holding the walkingstick picture while nine sit holding their walkingstick pictures. Repeat for the other combinations of ten within the book. Send Kate Narita a picture of your ten frames

([www.katenarita.com/contact](http://www.katenarita.com/contact)) and she'll feature your class photo on her blog. Then, put the ten frame worksheets in your math center for a fun follow up activity. See an example of a completed worksheet below.

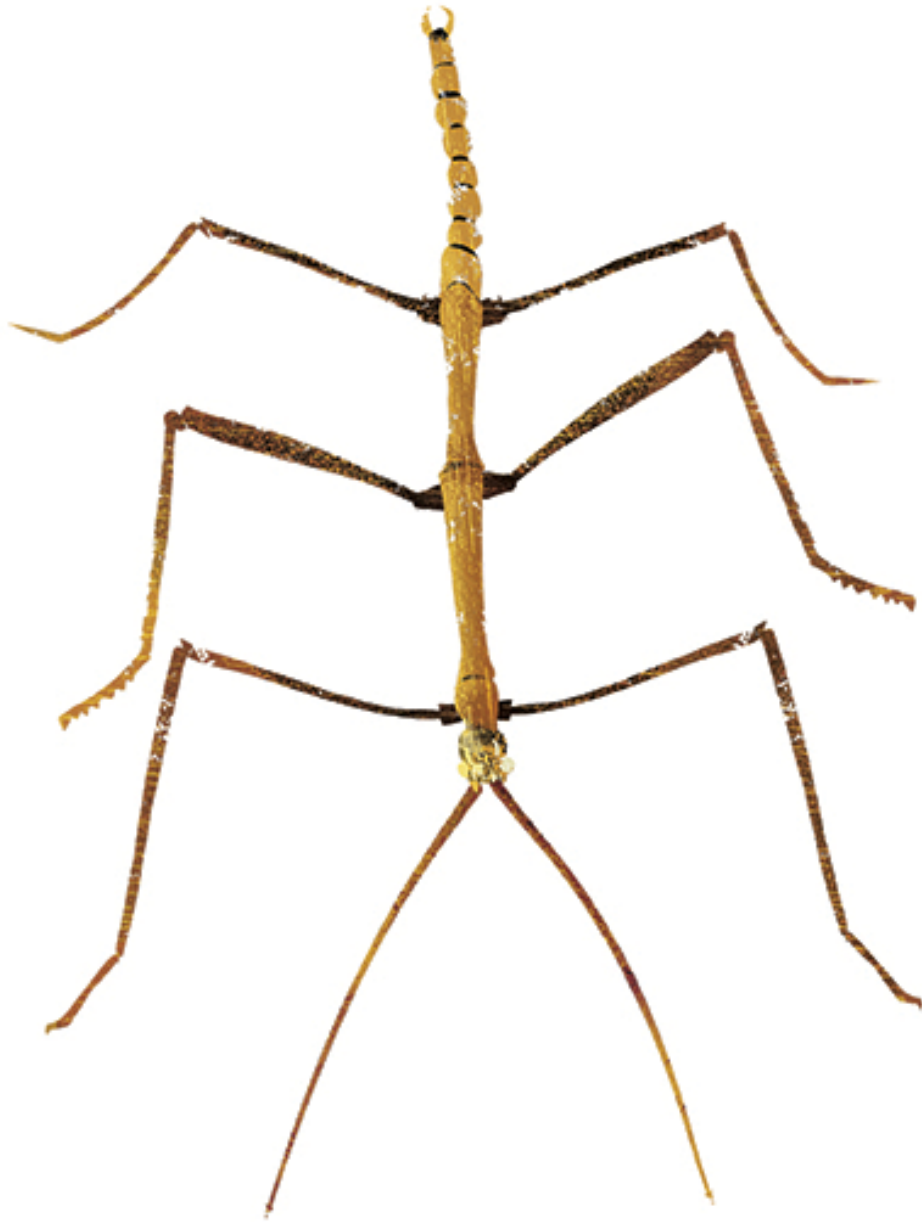
$$\underline{6} + \underline{4} = \underline{10}$$

$$\underline{10} - \underline{6} = \underline{4}$$

$$\underline{4} + \underline{6} = \underline{10}$$

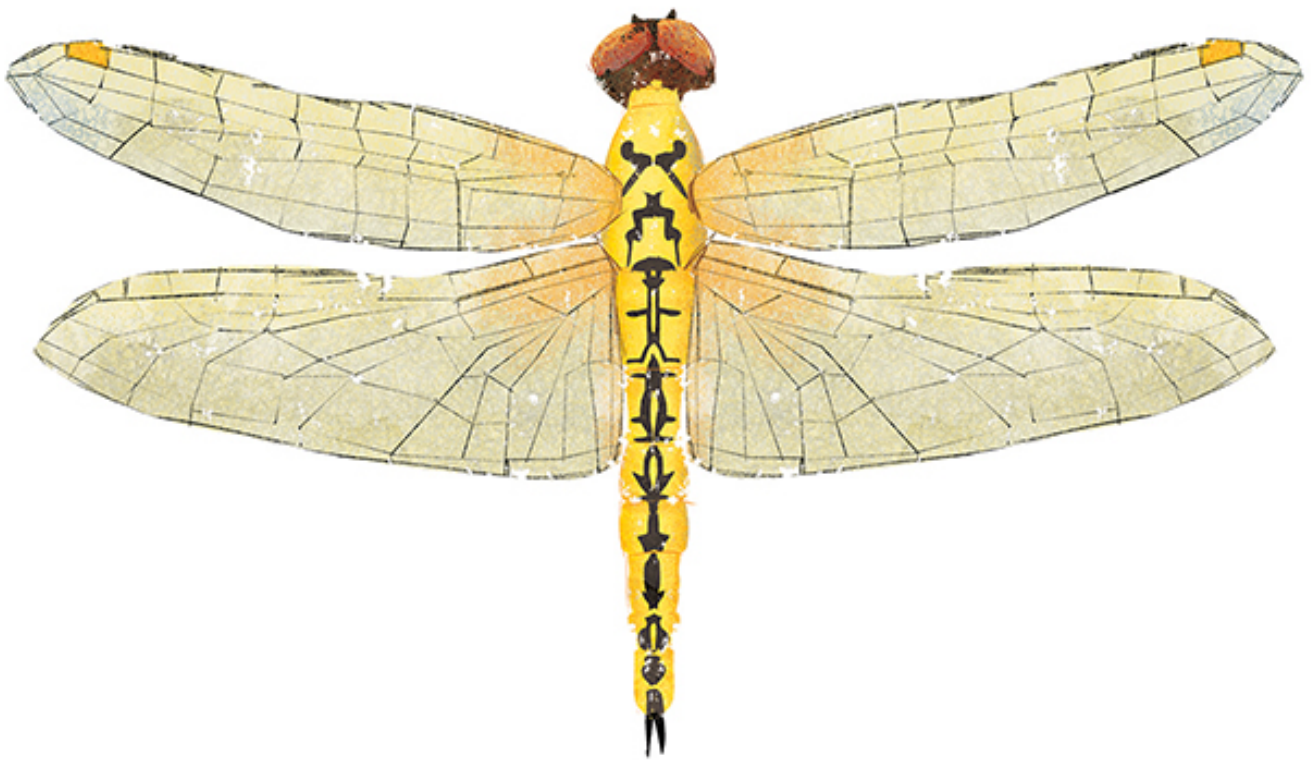
$$\underline{10} - \underline{4} = \underline{6}$$

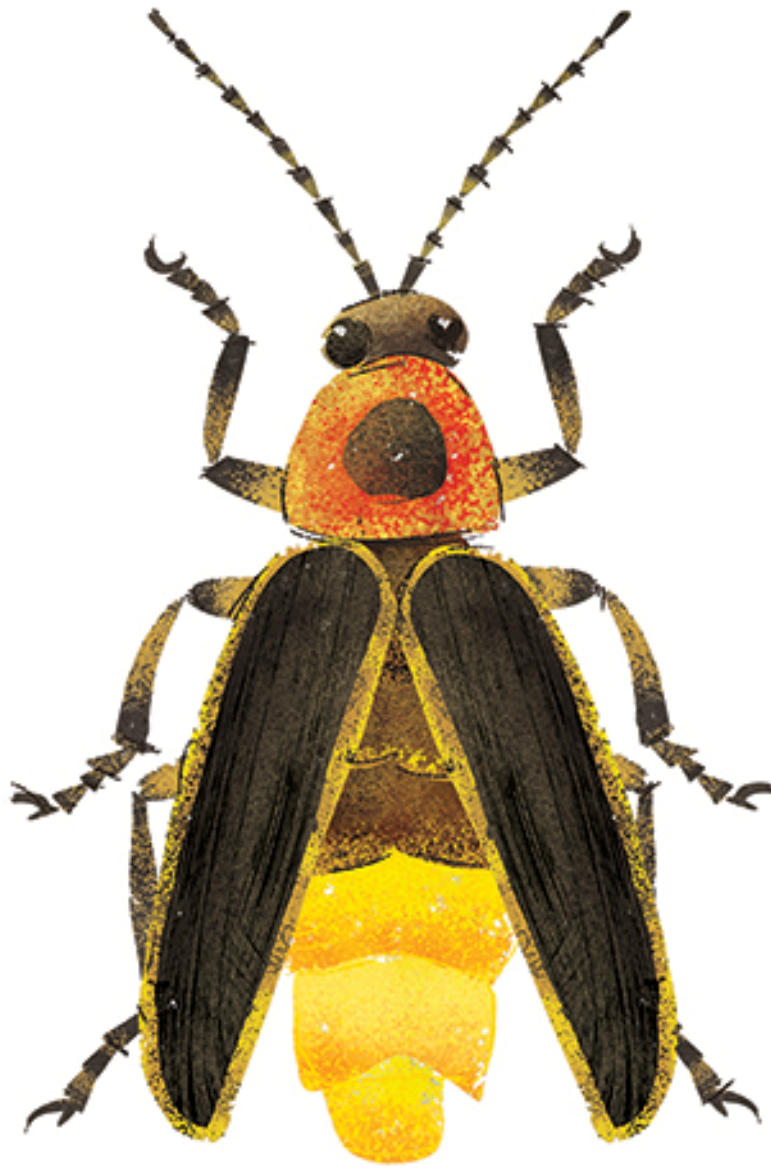




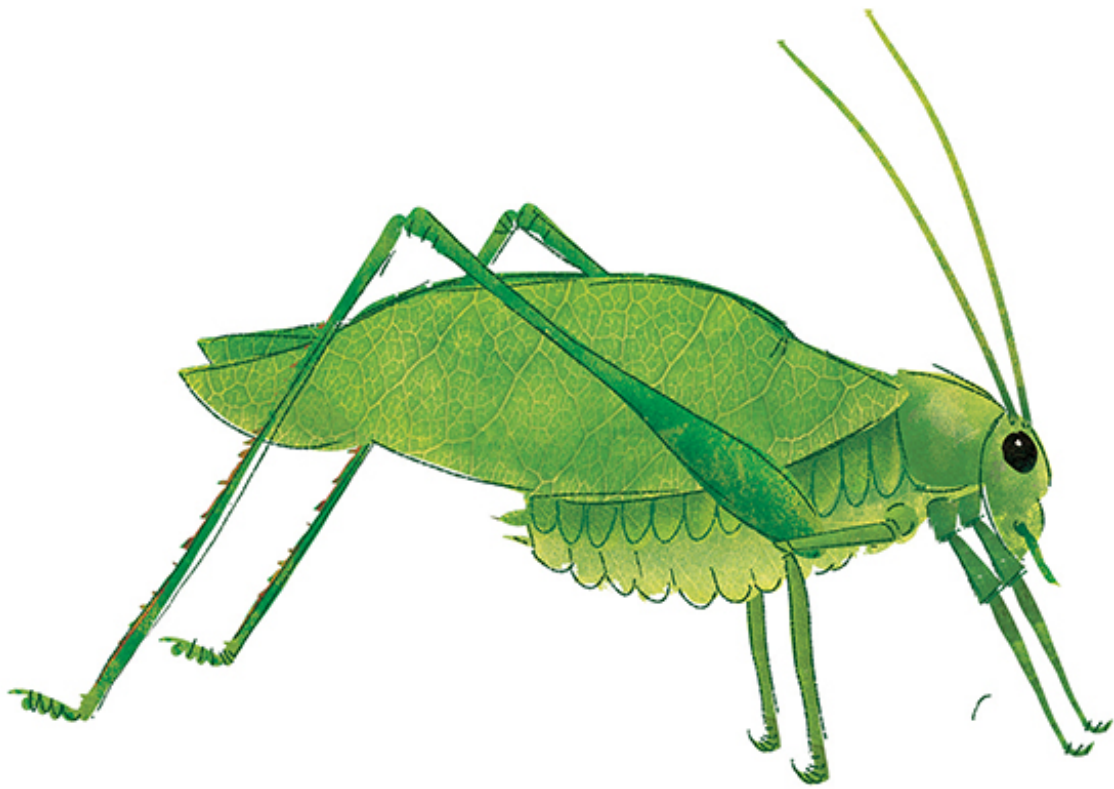




















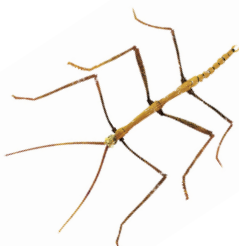


Name: \_\_\_\_\_

Directions: Draw one green walkingstick in the upper left-hand corner of your ten frame. Draw nine brown walkingsticks in the remaining spaces. (Males are more brownish, females are more greenish). Then, write the two addition facts that go with the ten frame.


$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

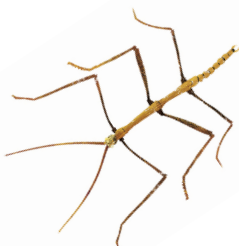


## ANSWER KEY

Directions: Draw one green walkingstick in the upper left-hand corner of your ten frame. Draw nine brown walkingsticks in the remaining spaces. (Males are more brownish, females are more greenish). Then, write the two addition facts that go with the ten frame.


$$\underline{1} + \underline{9} = \underline{10}$$

$$\underline{9} + \underline{1} = \underline{10}$$





Name: \_\_\_\_\_

Directions: Draw two orange dragonflies in the upper left-hand corner of your ten frame. Draw eight yellow dragonflies in the remaining spaces. (Males are golden orange and females are a duller yellow). Then, write the two addition facts that go with the ten frame.


$$\underline{\quad\quad} + \underline{\quad\quad} = \underline{\quad\quad}$$

$$\underline{\quad\quad} + \underline{\quad\quad} = \underline{\quad\quad}$$



## ANSWER KEY

Directions: Draw two orange dragonflies in the upper left-hand corner of your ten frame. Draw eight yellow dragonflies in the remaining spaces. (Males are golden orange and females are a duller yellow). Then, write the two addition facts that go with the ten frame.


$$\underline{2} + \underline{8} = \underline{10}$$

$$\underline{8} + \underline{2} = \underline{10}$$



Name: \_\_\_\_\_

Directions: Draw three green leafhoppers with red stripes in the upper left-hand corner of the ten frame. Draw seven blue leafhoppers with red stripes in the remaining spaces. (The color difference is attributed to subspecies). Then, write the two addition facts that go with the ten frame.


$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$



## ANSWER KEY

Directions: Draw three green leafhoppers with red stripes in the upper left-hand corner of the ten frame. Draw seven blue leafhoppers with red stripes in the remaining spaces. (The color difference is attributed to subspecies). Then, write the two addition facts that go with the ten frame.


$$\underline{3} + \underline{7} = \underline{10}$$

$$\underline{7} + \underline{3} = \underline{10}$$



Name: \_\_\_\_\_

Directions: Draw four orange ladybugs in the upper left-hand corner of your ten frame. Draw six red ladybugs in the remaining spaces. (This species usually has six spots on each half or twelve total). Then, write the two addition facts that go with the ten frame.


$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$



## ANSWER KEY

Directions: Draw four orange ladybugs in the upper left-hand corner of your ten frame. Draw six red ladybugs in the remaining spaces. (This species usually has six spots on each half or twelve total). Then, write the two addition facts that go with the ten frame.


$$\begin{array}{r} 4 \\ \hline \end{array} + \begin{array}{r} 6 \\ \hline \end{array} = \begin{array}{r} 10 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \hline \end{array} + \begin{array}{r} 4 \\ \hline \end{array} = \begin{array}{r} 10 \\ \hline \end{array}$$



Name: \_\_\_\_\_

Directions: Draw five bumblebees with black heads in the first row of your ten frame. Draw five bumblebees with yellow heads in the second row. (Females have black heads and males have yellow heads).

Remember that this bumblebee has a black stripe above its wings and an orange stripe across its middle. Then, write the two addition facts that go with the ten frame.


$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$



## ANSWER KEY

Directions: Draw five bumblebees with black heads in the first row of your ten frame. Draw five bumblebees with yellow heads in the second row. (Females have black heads and males have yellow heads).

Remember that this bumblebee has a black stripe above its wings and an orange stripe across its middle. Then, write the two addition facts that go with the ten frame.


$$\begin{array}{r} 5 \\ \hline \end{array} + \begin{array}{r} 5 \\ \hline \end{array} = \begin{array}{r} 10 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \hline \end{array} + \begin{array}{r} 5 \\ \hline \end{array} = \begin{array}{r} 10 \\ \hline \end{array}$$





Name: \_\_\_\_\_

Directions: Draw six yellow butterflies with black stripes in the first row of the ten frame and the lower left-hand corner. Draw four black butterflies with light blue hindwings in the remaining spaces. (Females may be yellow or black, males are always yellow). Then, write the two addition facts that go with the ten frame.


$$\underline{\quad\quad\quad} + \underline{\quad\quad\quad} = \underline{\quad\quad\quad}$$

$$\underline{\quad\quad\quad} + \underline{\quad\quad\quad} = \underline{\quad\quad\quad}$$



## ANSWER KEY

Directions: Draw six yellow butterflies with black stripes in the first row of the ten frame and the lower left-hand corner. Draw four black butterflies with light blue hindwings in the remaining spaces. (Females may be yellow or black, males are always yellow). Then, write the two addition facts that go with the ten frame.


$$\begin{array}{r} 6 \\ \hline \end{array} + \begin{array}{r} 4 \\ \hline \end{array} = \begin{array}{r} 10 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \hline \end{array} + \begin{array}{r} 6 \\ \hline \end{array} = \begin{array}{r} 10 \\ \hline \end{array}$$



Name: \_\_\_\_\_

Directions: Draw seven damselflies with green heads, black bodies and blue-tipped tails in the first row and the lower left-hand corner of the ten frame. Draw three powder blue/gray damselflies in the remaining spaces. (Males have green heads and females are grayish-blue). Then, write the two addition facts that go with the ten frame.


$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$



## ANSWER KEY

Directions: Draw seven damselflies with green heads, black bodies and blue-tipped tails in the first row and the lower left-hand corner of the ten frame. Draw three powder blue/gray damselflies in the remaining spaces. (Males have green heads and females are grayish-blue). Then, write the two addition facts that go with the ten frame.


$$\underline{7} + \underline{3} = \underline{10}$$

$$\underline{3} + \underline{7} = \underline{10}$$



Name: \_\_\_\_\_

Directions: Draw eight spittlebugs with two yellow stripes in the first row and the lower left-hand corner of the ten frame. Draw two spittlebugs with two red stripes in the remaining spaces. (These are two different variations of two-lined spittlebugs). Then, write the two addition facts that go with the ten frame.


$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$



## ANSWER KEY

Directions: Draw eight spittlebugs with two yellow stripes in the first row and the lower left-hand corner of the ten frame. Draw two spittlebugs with two red stripes in the remaining spaces. (These are two different variations of two-lined spittlebugs). Then, write the two addition facts that go with the ten frame.


$$\begin{array}{r} 8 \\ \hline \end{array} + \begin{array}{r} 2 \\ \hline \end{array} = \begin{array}{r} 10 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \hline \end{array} + \begin{array}{r} 8 \\ \hline \end{array} = \begin{array}{r} 10 \\ \hline \end{array}$$

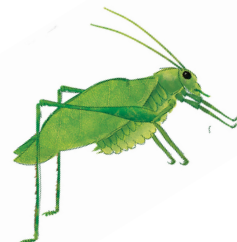
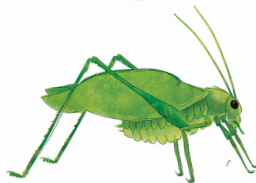
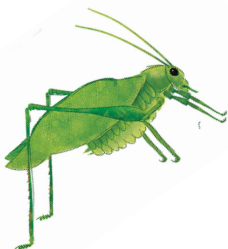


Name: \_\_\_\_\_

Directions: Draw nine green katydids in the first row and first four spaces of the bottom row of the ten frame. Draw one pink katydid in the lower right-hand corner. (Believe it or not, the females are sometimes pink instead of green)! Then, write the two addition facts that go with the ten frame.


$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

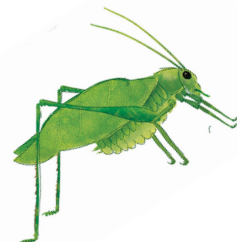
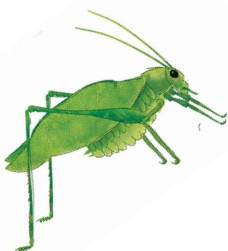


## ANSWER KEY

Directions: Draw nine green katydids in the first row and first four spaces of the bottom row of the ten frame. Draw one pink katydid in the lower right-hand corner. (Believe it or not, the females are sometimes pink instead of green)! Then, write the two addition facts that go with the ten frame.


$$\begin{array}{r} 9 \\ \hline \end{array} + \begin{array}{r} 1 \\ \hline \end{array} = \begin{array}{r} 10 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \hline \end{array} + \begin{array}{r} 9 \\ \hline \end{array} = \begin{array}{r} 10 \\ \hline \end{array}$$





Name: \_\_\_\_\_

Directions: Draw ten lightning bugs in the spaces of the ten frame.  
Have fun! Then, write the two addition facts that go with the ten frame.


$$\underline{\quad\quad\quad} + \underline{\quad\quad\quad} = \underline{\quad\quad\quad}$$

$$\underline{\quad\quad\quad} + \underline{\quad\quad\quad} = \underline{\quad\quad\quad}$$



## ANSWER KEY

Directions: Draw ten lightning bugs in the spaces of the ten frame.  
Have fun! Then, write the two addition facts that go with the ten frame.  
frame.


$$\begin{array}{r} 10 \\ \hline \end{array} + \begin{array}{r} 0 \\ \hline \end{array} = \begin{array}{r} 10 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ \hline \end{array} + \begin{array}{r} 10 \\ \hline \end{array} = \begin{array}{r} 10 \\ \hline \end{array}$$



Name: \_\_\_\_\_

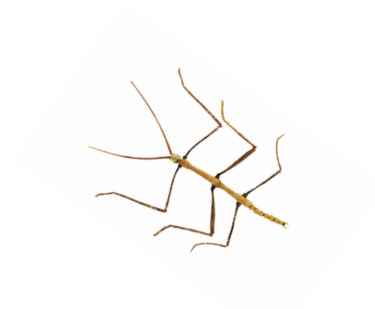
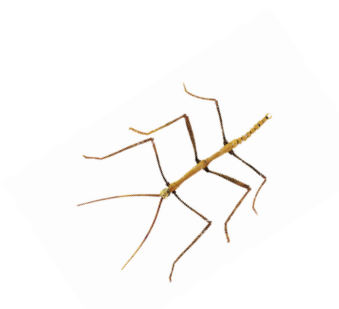
Directions: Draw one green walkingstick in the upper left-hand corner of your ten frame. Draw nine brown walkingsticks in the remaining spaces. (Males are more brownish, females are more greenish). Then, write the fact family to go with the ten frame.


$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$



## ANSWER KEY

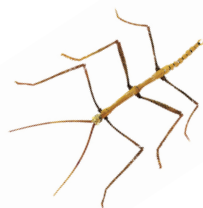
Directions: Draw one green walkingstick in the upper left-hand corner of your ten frame. Draw nine brown walkingsticks in the remaining spaces. (Males are more brownish, females are more greenish). Then, write the fact family to go with the ten frame.


$$\underline{1} + \underline{9} = \underline{10}$$

$$\underline{10} - \underline{1} = \underline{9}$$

$$\underline{9} + \underline{1} = \underline{10}$$

$$\underline{10} - \underline{9} = \underline{1}$$



Name: \_\_\_\_\_

Directions: Draw two orange dragonflies in the upper left-hand corner of your ten frame. Draw eight yellow dragonflies in the remaining spaces. (Males are golden orange and females are a duller yellow). Then, write the fact family to go with the ten frame.


$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$



## ANSWER KEY

Directions: Draw two orange dragonflies in the upper left-hand corner of your ten frame. Draw eight yellow dragonflies in the remaining spaces. (Males are golden orange and females are a duller yellow). Then, write the fact family to go with the ten frame.


$$\underline{2} + \underline{8} = \underline{10}$$

$$\underline{10} - \underline{2} = \underline{8}$$

$$\underline{8} + \underline{2} = \underline{10}$$

$$\underline{10} - \underline{8} = \underline{2}$$



Name: \_\_\_\_\_

Directions: Draw three green leafhoppers with red stripes in the upper left-hand corner of the ten frame. Draw seven blue leafhoppers with red stripes in the remaining spaces. (The color difference is attributed to subspecies). Then, write the fact family to go with the ten frame.


$$\begin{array}{ccccc} \underline{\quad} & + & \underline{\quad} & = & \underline{\quad} \\ \underline{\quad} & + & \underline{\quad} & = & \underline{\quad} \end{array} \quad \begin{array}{ccccc} \underline{\quad} & - & \underline{\quad} & = & \underline{\quad} \\ \underline{\quad} & - & \underline{\quad} & = & \underline{\quad} \end{array}$$



## ANSWER KEY

Directions: Draw three green leafhoppers with red stripes in the upper left-hand corner of the ten frame. Draw seven blue leafhoppers with red stripes in the remaining spaces. (The color difference is attributed to subspecies). Then, write the fact family to go with the ten frame.


$$\underline{3} + \underline{7} = \underline{10}$$

$$\underline{10} - \underline{3} = \underline{7}$$

$$\underline{7} + \underline{3} = \underline{10}$$

$$\underline{10} - \underline{7} = \underline{3}$$





Name: \_\_\_\_\_

Directions: Draw four orange ladybugs in the upper left-hand corner of your ten frame. Draw six red ladybugs in the remaining spaces.

(This species usually has six spots on each half or twelve total). Then, write the fact family to go with the ten frame.


$$\begin{array}{ccccc} \underline{\quad} & + & \underline{\quad} & = & \underline{\quad} \\ \underline{\quad} & + & \underline{\quad} & = & \underline{\quad} \end{array} \quad \begin{array}{ccccc} \underline{\quad} & - & \underline{\quad} & = & \underline{\quad} \\ \underline{\quad} & - & \underline{\quad} & = & \underline{\quad} \end{array}$$



## ANSWER KEY

Directions: Draw four orange ladybugs in the upper left-hand corner of your ten frame. Draw six red ladybugs in the remaining spaces.

(This species usually has six spots on each half or twelve total). Then, write the fact family to go with the ten frame.


$$\underline{4} + \underline{6} = \underline{10}$$

$$\underline{10} - \underline{4} = \underline{6}$$

$$\underline{6} + \underline{4} = \underline{10}$$

$$\underline{10} - \underline{6} = \underline{4}$$



Name: \_\_\_\_\_

Directions: Draw five bumblebees with black heads in the first row of your ten frame. Draw five bumblebees with yellow heads in the second row. Remember that this bumblebee has a black stripe above its wings and an orange stripe across its middle. (Females have black heads and males have yellow heads). Then, write the fact family to go with the ten frame.


$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$



## ANSWER KEY

Directions: Draw five bumblebees with black heads in the first row of your ten frame. Draw five bumblebees with yellow heads in the second row. Remember that this bumblebee has a black stripe above its wings and an orange stripe across its middle. (Females have black heads and males have yellow heads). Then, write the fact family to go with the ten frame.


$$\underline{5} + \underline{5} = \underline{10}$$

$$\underline{10} - \underline{5} = \underline{5}$$

$$\underline{5} + \underline{5} = \underline{10}$$

$$\underline{10} - \underline{5} = \underline{5}$$



Name: \_\_\_\_\_

Directions: Draw six yellow butterflies with black stripes in the first row of the ten frame and the lower left-hand corner. Draw four black butterflies with light blue hindwings in the remaining spaces. (Females may be yellow or black, males are always yellow). Then, write the fact family to go with the ten frame.


_____	+	_____	=	_____		_____	-	_____	=	_____
_____	+	_____	=	_____		_____	-	_____	=	_____



## ANSWER KEY

Directions: Draw six yellow butterflies with black stripes in the first row of the ten frame and the lower left-hand corner. Draw four black butterflies with light blue hindwings in the remaining spaces. (Females may be yellow or black, males are always yellow). Then, write the fact family to go with the ten frame.


$$\underline{6} + \underline{4} = \underline{10}$$

$$\underline{10} - \underline{6} = \underline{4}$$

$$\underline{4} + \underline{6} = \underline{10}$$

$$\underline{10} - \underline{4} = \underline{6}$$



Name: \_\_\_\_\_

Directions: Draw seven damselflies with green heads, black bodies and blue-tipped tails in the first row and the lower left-hand corner of the ten frame. Draw three powder blue/gray damselflies in the remaining spaces. (Males have green heads and females are grayish-blue). Then, write the fact family to go with the ten frame.


$$\begin{array}{r} \underline{\quad} + \underline{\quad} = \underline{\quad} \\ \underline{\quad} + \underline{\quad} = \underline{\quad} \end{array} \quad \begin{array}{r} \underline{\quad} - \underline{\quad} = \underline{\quad} \\ \underline{\quad} - \underline{\quad} = \underline{\quad} \end{array}$$



## ANSWER KEY

Directions: Draw seven damselflies with green heads, black bodies and blue-tipped tails in the first row and the lower left-hand corner of the ten frame. Draw three powder blue/gray damselflies in the remaining spaces. (Males have green heads and females are grayish-blue). Then, write the fact family to go with the ten frame.


$$\underline{7} + \underline{3} = \underline{10}$$

$$\underline{10} - \underline{7} = \underline{3}$$

$$\underline{3} + \underline{7} = \underline{10}$$

$$\underline{10} - \underline{3} = \underline{7}$$





Name: \_\_\_\_\_

Directions: Draw eight spittlebugs with two yellow stripes in the first row and the lower left-hand corner of the ten frame. Draw two spittlebugs with two red stripes in the remaining spaces. (These are two different variations of two-lined spittlebugs). Then, write the fact family to go with the ten frame.


$$\begin{array}{cccc} \underline{\quad} & + & \underline{\quad} & = & \underline{\quad} \\ \underline{\quad} & + & \underline{\quad} & = & \underline{\quad} \end{array} \quad \begin{array}{cccc} \underline{\quad} & - & \underline{\quad} & = & \underline{\quad} \\ \underline{\quad} & - & \underline{\quad} & = & \underline{\quad} \end{array}$$



## ANSWER KEY

Directions: Draw eight spittlebugs with two yellow stripes in the first row and the lower left-hand corner of the ten frame. Draw two spittlebugs with two red stripes in the remaining spaces. (These are two different variations of two-lined spittlebugs). Then, write the fact family to go with the ten frame.


$$\underline{8} + \underline{2} = \underline{10}$$

$$\underline{10} - \underline{8} = \underline{2}$$

$$\underline{2} + \underline{8} = \underline{10}$$

$$\underline{10} - \underline{2} = \underline{8}$$



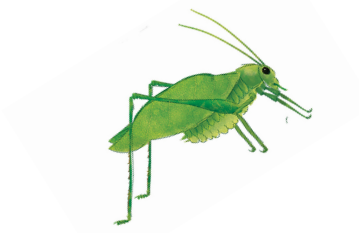
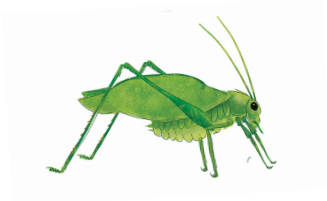
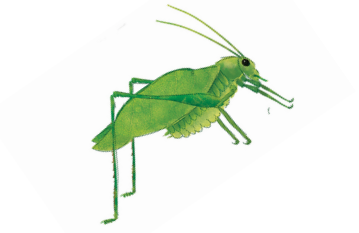
Name: \_\_\_\_\_

Directions: Draw nine green katydids in the first row and first four spaces of the bottom row of the ten frame. Draw one pink katydid in the lower right-hand corner. (Believe it or not, the females are sometimes pink instead of green)! Then, write the two addition facts that go with the ten frame.


$$\begin{array}{cccc} \underline{\quad} & + & \underline{\quad} & = & \underline{\quad} \\ \underline{\quad} & + & \underline{\quad} & = & \underline{\quad} \end{array}$$

|

$$\begin{array}{cccc} \underline{\quad} & - & \underline{\quad} & = & \underline{\quad} \\ \underline{\quad} & - & \underline{\quad} & = & \underline{\quad} \end{array}$$



## ANSWER KEY

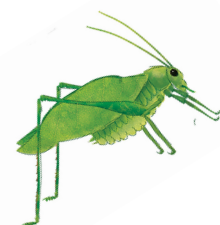
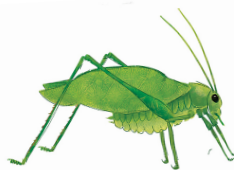
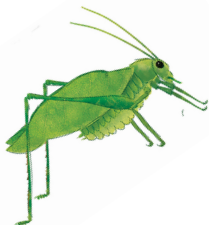
Directions: Draw nine green katydids in the first row and first four spaces of the bottom row of the ten frame. Draw one pink katydid in the lower right-hand corner. (Believe it or not, the females are sometimes pink instead of green)! Then, write the two addition facts that go with the ten frame.


$$\begin{array}{r} 9 \\ \hline \end{array} + \begin{array}{r} 1 \\ \hline \end{array} = \begin{array}{r} 10 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \hline \end{array} - \begin{array}{r} 9 \\ \hline \end{array} = \begin{array}{r} 1 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \hline \end{array} + \begin{array}{r} 9 \\ \hline \end{array} = \begin{array}{r} 10 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \hline \end{array} - \begin{array}{r} 1 \\ \hline \end{array} = \begin{array}{r} 9 \\ \hline \end{array}$$



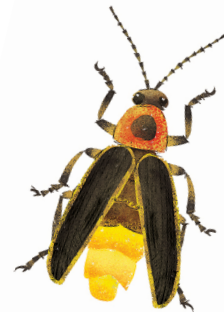
Name: \_\_\_\_\_

Directions: Draw ten lightning bugs in the spaces of the ten frame.  
Have fun! Then, write the two addition facts that go with the ten frame.


$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$



## ANSWER KEY

Directions: Draw ten lightning bugs in the spaces of the ten frame.  
Have fun! Then, write the two addition facts that go with the ten frame.  
frame.


$$\underline{10} + \underline{0} = \underline{10}$$

$$\underline{10} - \underline{0} = \underline{10}$$

$$\underline{0} + \underline{10} = \underline{10}$$



# Bug Ten Frames Common Core Alignment

## Know number names and the count sequence.

CCSS.MATH.CONTENT.K.CC.A.1: Count to 100 by ones and by tens.

CCSS.MATH.CONTENT.K.CC.A.3: Write numbers from 0 to 20. Represent a number of objects with a written numeral 0-20 (with 0 representing a count of no objects).

## Count to tell the number of objects.

CCSS.MATH.CONTENT.K.CC.B.4: Understand the relationship between numbers and quantities; connect counting to cardinality.

CCSS.MATH.CONTENT.K.CC.B.4.A: When counting objects, say the number names in the standard order, pairing each object with one and only one number name and each number name with one and only one object.

CCSS.MATH.CONTENT.K.CC.B.4.B: Understand that the last number name said tells the number of objects counted. The number of objects is the same regardless of their arrangement or the order in which they were counted.

CCSS.MATH.CONTENT.K.CC.B.4.C: Understand that each successive number name refers to a quantity that is one larger.

CCSS.MATH.CONTENT.K.CC.B.5: Count to answer “how many?” questions about as many as 20 things arranged in a line, a rectangular array, or a circle, or as many as 10 things in a scattered configuration; given a number from 1-20, count out that many objects.

## Compare numbers.

CCSS.MATH.CONTENT.K.CC.C.7: Compare two numbers between 1 and 10 presented as written numerals.

# Bug Ten Frames Common Core Alignment

**Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.**

CCSS.MATH.CONTENT.K.OA.A.1: Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.

CCSS.MATH.CONTENT.K.OA.A.2: Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem.

CCSS.MATH.CONTENT.K.OA.A.3: Decompose numbers less than or equal to 10 into pairs in more than one way, e.g., by using objects or drawings, and record each decomposition by a drawing or equation (e.g.,  $5 = 2 + 3$  and  $5 = 4 + 1$ ).

CCSS.MATH.CONTENT.K.OA.A.4: For any number from 1 to 9, find the number that makes 10 when added to the given number, e.g., by using objects or drawings, and record the answer with a drawing or equation.

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

CCSS.MATH.CONTENT.I.OA.B.4: Understand subtraction as an unknown-addend problem. For example, subtract  $10 - 8$  by finding the number that makes 10 when added to 8.