A 100 Bug Array

A Common Core State Standards Aligned Activity for

FARRAR STRAUS GIROUX
New York

Written by Kate Narita

Illustrated by Suzanne Kaufman

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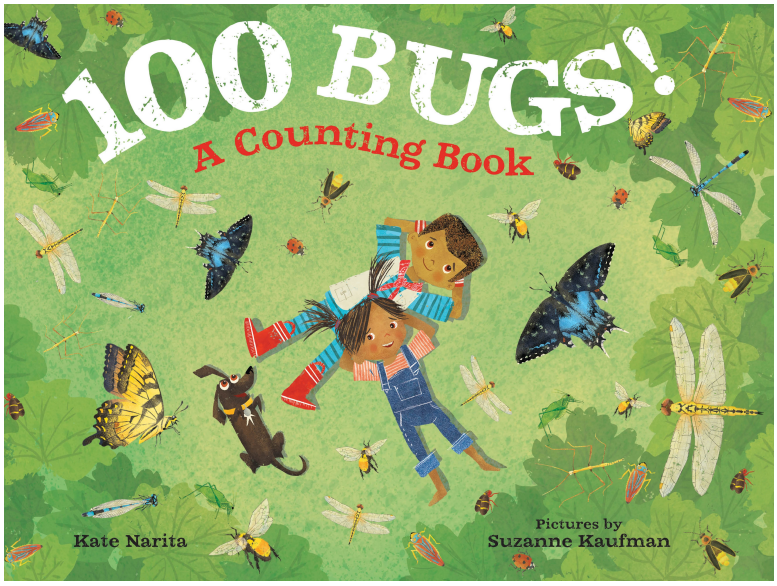


"Packed with great extension possibilities, visually engaging illustrations, and quick rhymes, this read-aloud would be a great addition to any STEM shelf." —Kirkus Review

Meet the Team

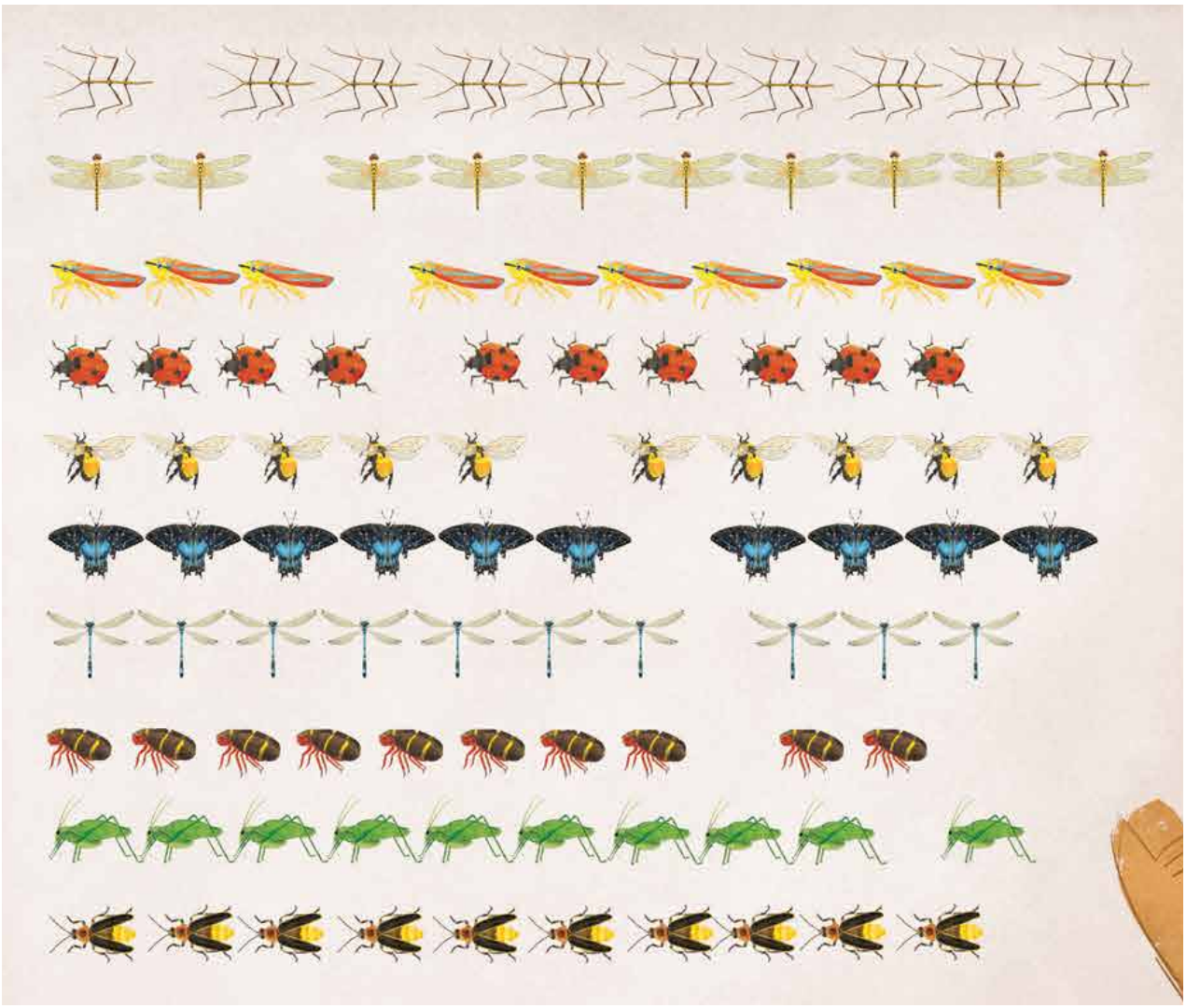
Kate Palaces Narita is the author of *100 Bugs! A Counting Book*. When she's not out and about driving, teaching fourth grade or cheering on her two teenage sons, Kate lives, writes, and hikes on a small mountain in central Massachusetts. There's a magical part of Mt. Wachusett in every one of her stories. 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.

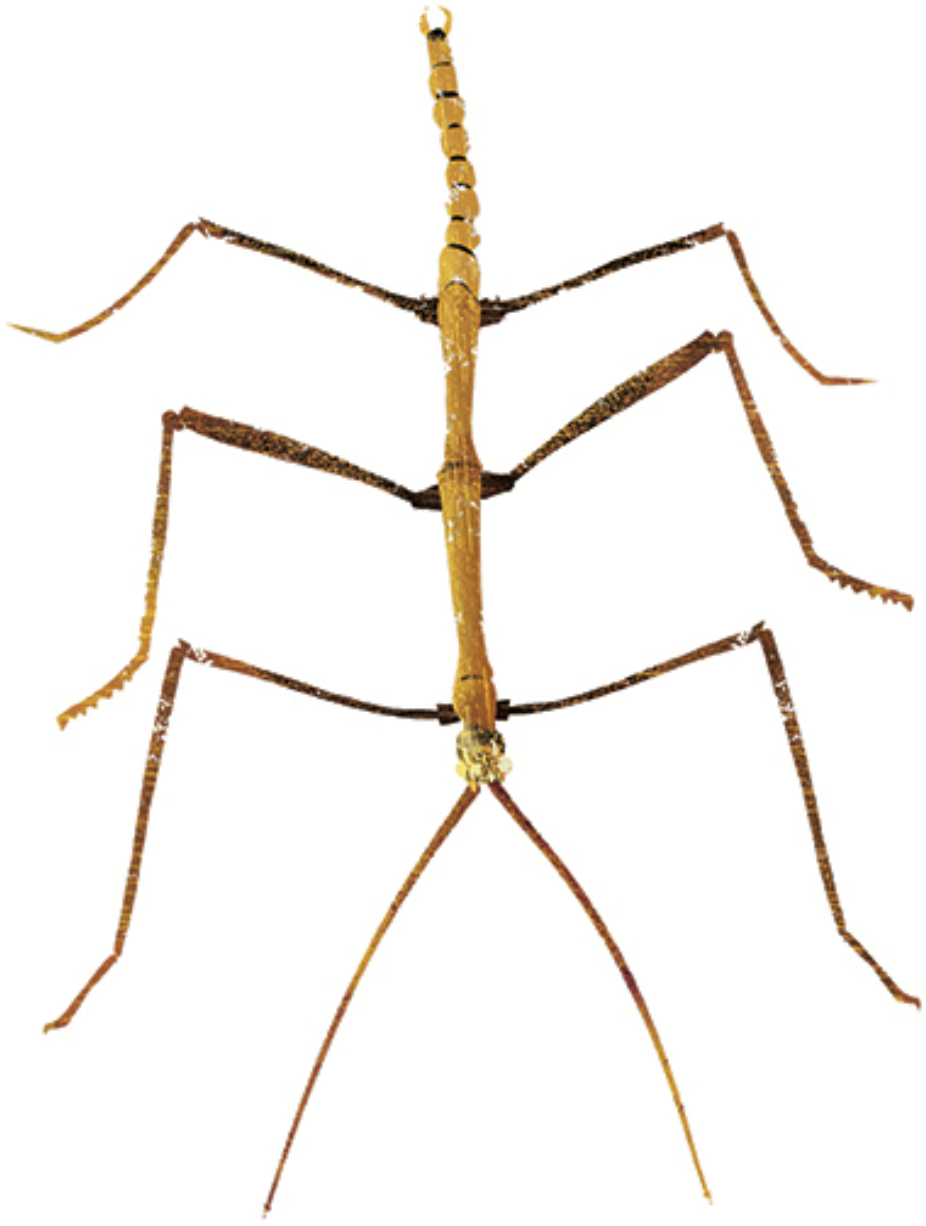
Suzanne Kaufman is an author, illustrator, animator and lover of school potlucks. She is the author-illustrator of Confiscated and *I Love Monkey*. Her previously illustrated work includes books: All Are Welcome, *100 Bugs*, *Naughty Claudine Christmas*, and *Samanthasaurus Rex*. Over the years, she's 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.

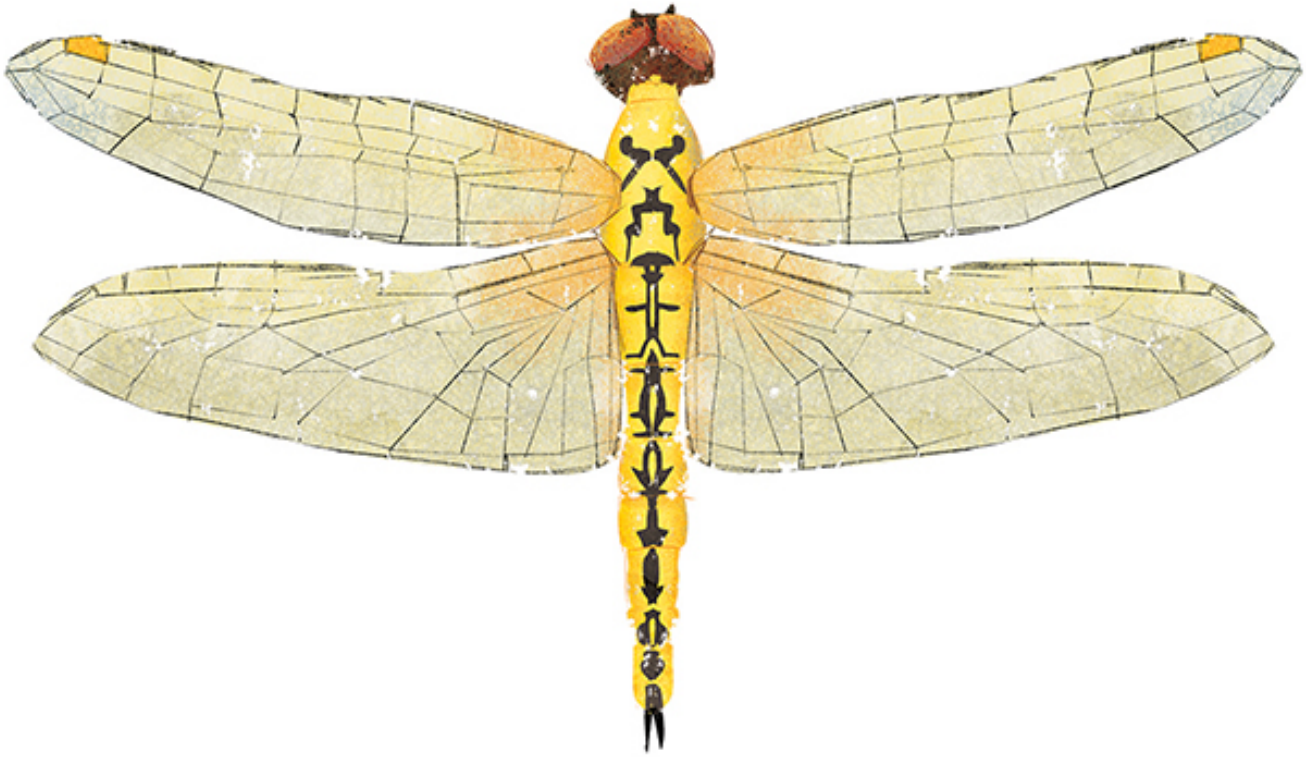
Lisandra Flynn is an editor turned elementary school teacher who works with Kate. She has a flair for design and enjoys creating learning resources for her students and fellow teachers. When she's not teaching or tediously reorganizing her classroom, Lisandra enjoys hiking, crafting, and decorating her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

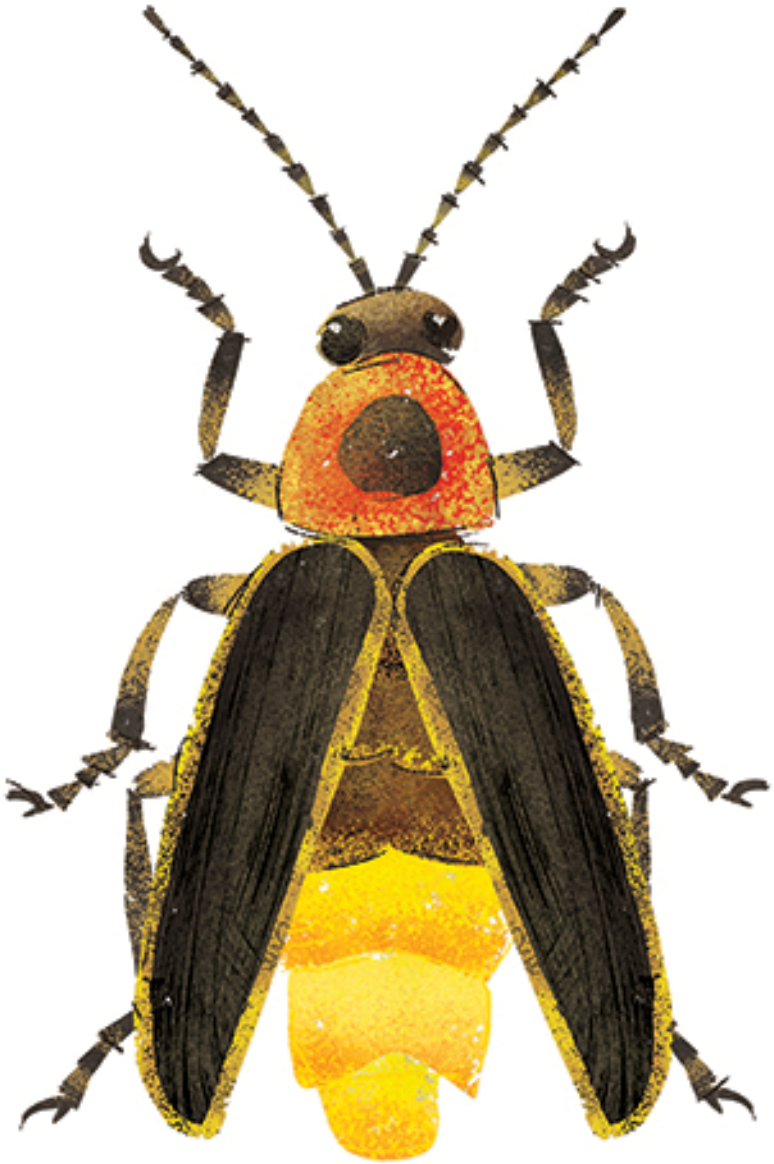
A 100 Bug Array

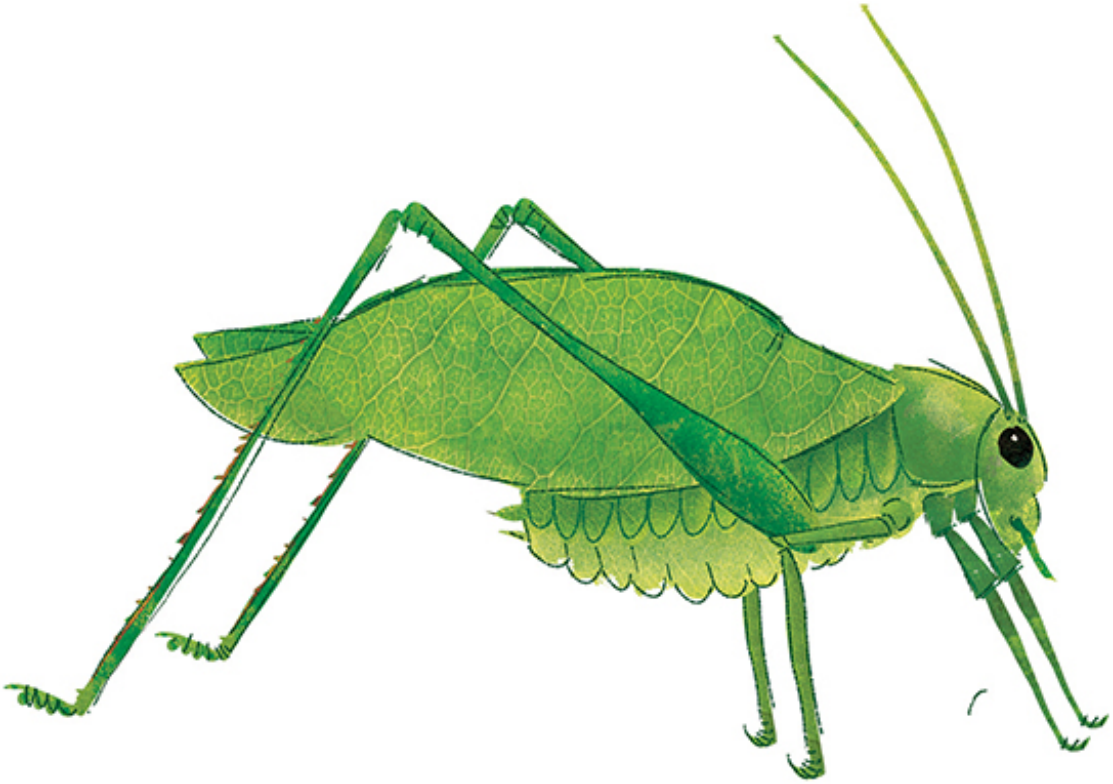
Recreate the array of 100 bugs featured inside the book. Students can draw their own bugs or you can print out multiple copies of illustrator Suzanne Kaufman's stunning bugs (attached). This can be done on bulletin board paper or you can team up with other classes and 100 students can hold the bugs. Whatever route you choose, be sure to send Kate Narita a photo of the array (www.katenarita.com/contact) and she'll be sure to put it on her blog.











A 100 Bug Array 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.

Understand place value.

CCSS.MATH.CONTENT.1.NBT.B.2: Understand that the two digits of a two-digit number represent amounts of tens and ones.

CCSS.MATH.CONTENT.1.NBT.B.2.C: The numbers 10, 20, 30, 40, 50, 60, 70, 80, 90 refer to one, two, three, four, five, six, seven, eight, or nine tens (and 0 ones).

CCSS.MATH.CONTENT.2.NBT.A.1.A: 100 can be thought of as a bundle of ten tens — called a "hundred."

Use place value and properties of operations to add and subtract.

CCSS.MATH.CONTENT.1.NBT.C.4: Add within 100, including adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones; and sometimes it is necessary to compose a ten.

CCSS.MATH.CONTENT.1.NBT.C.5: Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used.

CCSS.MATH.CONTENT.1.NBT.C.6: Subtract multiples of 10 in the range 10-90 from multiples of 10 in the range 10-90 (positive or zero differences), using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.

A 100 Bug Array Common Core Alignment

Work with equal groups of objects to gain foundations for multiplication.

CCSS.MATH.CONTENT.2.OA.C.4: Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.