# Grade 2

# **Number Sense Routines**

## Week 1: Which One Doesn't Belong?

# In math, ideas are more important than answers.





Α

С

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D



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D

В

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Α

С

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В

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С

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## Week 2: Notice and Wonder

## What does noticing mean? What does wondering mean?



![](_page_9_Picture_0.jpeg)

![](_page_10_Picture_0.jpeg)

![](_page_11_Picture_0.jpeg)

![](_page_12_Picture_0.jpeg)

## Week 3: How Many?

# How can you see the same problem in different ways?

![](_page_14_Picture_0.jpeg)

![](_page_15_Picture_0.jpeg)

![](_page_16_Picture_0.jpeg)

![](_page_17_Picture_0.jpeg)

![](_page_18_Picture_0.jpeg)

### Make your own custom images!

Select and copy the images you want

![](_page_19_Picture_2.jpeg)

Paste onto background image

![](_page_19_Picture_4.jpeg)

Delete/rearrange for custom image (or mix/match groupings)

![](_page_19_Picture_6.jpeg)

Or, create a sequence of slides that changes over time

Access them all for free: <u>https://berkeleyeverett.com/images/custom-number-talk-images/</u>

## Week 4: Math Flips

# Math is about finding relationships between problems to make them easier to solve.

![](_page_21_Figure_0.jpeg)

![](_page_21_Picture_1.jpeg)

![](_page_21_Picture_2.jpeg)

![](_page_21_Picture_3.jpeg)

![](_page_21_Picture_4.jpeg)

![](_page_21_Picture_5.jpeg)

Math Flips

Α

![](_page_22_Picture_1.jpeg)

![](_page_22_Picture_2.jpeg)

![](_page_22_Picture_3.jpeg)

![](_page_22_Picture_4.jpeg)

![](_page_22_Picture_5.jpeg)

В

# 9+1

# 7+9+1

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Math Flips

# 8+2

# 3+8+2+6

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Math Flips

### Math Flips Day 5: (Look back over the Math Flips you've done)

What do you notice about this deck? How does side A help you solve side B?

### Which Math Flips decks are best for 2nd Grade?

#### Addition:

(Prerequisite deck) Subitizing
Plus and Minus 1 within 10
Count On within 10
Count On within 20
Doubles and Near Doubles
(Prerequisite deck for Make 10) Combinations of 10
(Prerequisite deck for Make 10) Teen Numbers
Make 10 with 3 Addends (This week's deck)
Make 10 with 2 Addends
Plus and Minus 10 and 1 with 2 Digit Numbers
2 Digit plus 1 Digit
2 Digit plus Multiples of 10
2 Digit plus 2 Digit

#### Subtraction:

- •Within 10
- •Within 15
- •Within 20
- •Within 100

![](_page_26_Picture_8.jpeg)

#### **Multiplication:**

•2s, 5s, and 10s with Commutative Property

11/11

Aath Flips: Multiplic

- •Doubling with 4s, 6s, and 8s
- •Friendly Numbers with 3s and 6s
- •Friendly Numbers with 9s and 4s
- Hardest Facts
- •1 digit by Multiple of 10
- •1 digit by 2 digit Partial Products
- •1 digit by 2 digit Over and Subtract
- •1 digit by 2 digit Five is Half of Ten
- •1 digit by 2 digit Factoring

### Access them all for free: www.berkeleyeverett.com/math-flips

## Week 5: Open Questions

## What patterns will you discover? How can you extend them?

#### Tell me everything you know about 51

#### What are different ways to make 19?

### \_\_\_ + 9 = \_\_\_\_

= 25 + \_\_\_

### \_\_\_\_ - 8 = \_\_\_\_

## Thank you!

Keep in touch with Berkeley:

Website: www.berkeleyeverett.com

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Math Pedagogy Math Flips Images Presentations About

### I help you **VISUALIZE** the math you teach.

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