## Daily Routines to Jump-Start Math Class, Elementary THE BOOK AT-A-GLANCE

A quick-reference table provides you with a brief description of each task, along with the corresponding task purpose.

## JUMP-START ROUTINES AT-A-GLANCE

|  | ROUTINE | DESCRIPTION | PURPOSE |
| :---: | :---: | :---: | :---: |
| 1 | Math Yapper | Students provide clues for partners to guess mystery numbers, concepts, or vocabulary. | Develop understanding of concepts and vocabulary to communicate clearly. |
| 2 | The Count | Students make predictions about counting when given starting points and an interval. | Develop counting and skip-counting skills and estimation. |
| 3 | The Missing | Students determine missing numbers on a number chart. | Develop advanced strategies about counting. |
| 4 | Big or Small | Students determine when a number represents something big and when a number represents something small. | Develop sense of quantity and magnitude through contexts for number. |
| 5 | Picture It | Students estimate quantities in pictures. | Develop understanding of magnitude of numbers by reasoning about them in context. |
| 6 | Show It 3 | Students represent a number in three diverse ways. | Develop deeper understanding of single and multi-digit number concepts. |
| 7 | How Can You Make lt? | Students determine ways to make a number. | Develop understanding of number composition and decomposition. |
| 8 | The Mighty Ten | Students find combinations of 10 , multiples of 10,100 , or 1,000. | Develop fluency with combinations of ten and transfer this fluency to multi-digit numbers. |
| 9 | Make It Friendly | Students add more than one number by finding friendly numbers. | Develop strategies for adding and subtracting numbers using decomposition and compatible numbers. |
| 10 | Mystery Number | Students use clues about a number to determine if they have the mystery number. | Develop understanding about number through attributes and relationships. |
| 11 | Number Bio | Students complete prompts about a given number. | Develop understanding about numbers through representations, attributes, and relationships. |
| 12 | Condition | Students use conditions about a number to earn points. | Develop understanding of number and flexibility of reasoning. |
| 13 | Where's the Point? | Students determine possible values for unknown locations on empty number lines. | Develop understanding of number relationships with number lines. |

## Video Demonstrations

bring the jump-start routines to life and help you visualize how they might work in your classroom.


An About the Routine
section
provides an
overview
of what the routine entails.


## About the Routine

Students learn about and use all sorts of tools to help them count and make sense of number relationships. A number chart is one of the most fundamental tools that students work with. Though this tool is instrumental, if not used well, it can undermine student progress toward more complex ideas about numbers and counting. Often, missing numbers on the chart are surrounded by known or completed numbers. In some cases, the entire chart is completed with the exception of a handful of missing numbers. Students are then asked to find the missing numbers. Students are likely to simply count on from knowns. Unfortunately, some students may still begin with 1 and count on to find the missing number, even though many of the numbers are already present. There are missed opportunities to discuss other counting strategies, including 10 more and 10 less, two more and two less, and so on. The Missing asks students to find

Why It Matters
This routine helps students:

- persevere when solutions or solution paths are not obvious (MP1);
- reinforce relationships between numbers (MP2);
- discover that numbers are related to other numbers in more than one way (MP2);
- look for patterns within counting numbers, known and unknown numbers (MP7);

All tasks can be downloaded for your use at resources.corwin.com/ resonirinesh All tasks can be downloaded for

## Why It Matters

sections encapsulate
the relevance of the routine for student learning and call out any related Standards for Mathematical Practice.

## Online Resources

 icons signal the availability of downloadable tasks.What They Should
Understand First sections explain what mathematics students should ideally know before embarking on
the routine at hand.

What to Do sections break down exactly how to use the routine in your classroom, step by step.

## Anticipated Strategies for This Example

 describe and distill the key strategies that will likely arise while students are working through each routine.
## Additional Examples

 sections explain how you can adjust the routine for grade-specific content and leverage it to further develop students' mathematical skills.They might avoid three-digit numbers with the same digit in each place value. As you notice these vacancies in student creations, you can pose new conditions to nudge your students toward thinking about different numbers. For example, you may find that no student numbers have a 0 in them. The next condition you pose could award a point for a number that has zero tens. And, you might ask it again the next day to get a sense if any students latched on
to the thought that a three-digit number can have zero tens. Some conditions in the routine are better suited for reasoning and discussion than others. The third condition in the featured example petitions for numbers that round to 700 . Some students will think of numbers between 650 and 699, others will think of numbers between 700 and 749, and others will identify both sets. This is an example of a condition prompt that has potential for rich discussion.

## CONDITION-ADDITIONAL EXAMPLES

A. You can use Condition with all elementary students, as you can easily modify it for any concept or range of numbers. Example A shows how you might use it in a kindergarten classroom. The two 10 frames captured in the image are available with the slide deck in the downloadable content. You could also choose to have a large double 10 frame on the board that can be manipulated. For young students, you might choose to have them make a model of their number before posing conditions. Conditions themselves can make use of representations. You

Create a number on your ten frames. Match the CONDITION to earn a point.

Your number

- is the smallest number in the class
- is more than 10
- is one more than 7
- is more than 12
- is two more than 4


