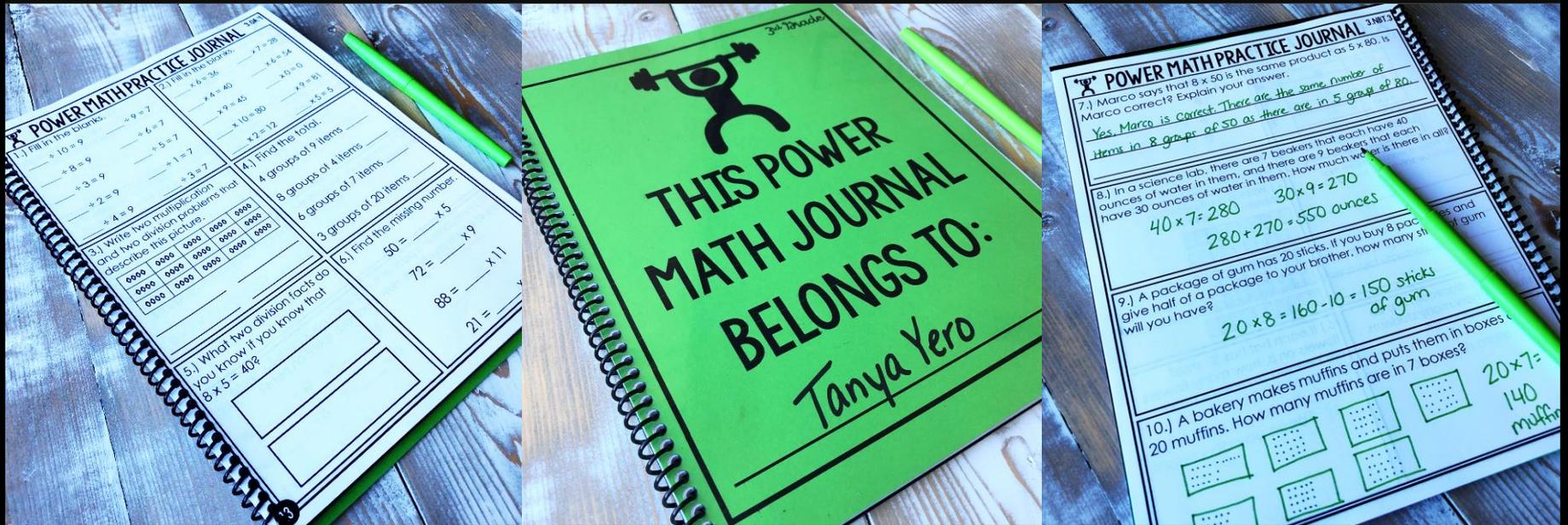


3RD GRADE

# POWER

Math Journal

250 Questions \* Test Prep \* Practice



Procedural & Conceptual Understanding

# POWER Math Journal

## What is included?

- 250 procedural and conceptual based math questions
- Quality prompts and word problems that promote rigorous thinking
- Space for showing work and answers
- 10 questions per standard
- Each standard is formatted to two pages
- Easy formatting options - bind into a spiral book for a resource throughout the year or print pages as you go
- Easy prep
- Answer keys

# POWER Math Journal

## Sample Pages

**STANDARD: 3.NBT.1**

### POWER MATH PRACTICE JOURNAL

1.) Round the numbers to the nearest 10.

36 \_\_\_\_\_ 13 \_\_\_\_\_

49 \_\_\_\_\_ 6 \_\_\_\_\_

72 \_\_\_\_\_ 92 \_\_\_\_\_

81 \_\_\_\_\_ 102 \_\_\_\_\_

3.) Circle the numbers that equal 40 when rounded to the nearest 10.

48 49 29 35 30

42 60 51 47 45

33 46 43 38 36

37 31 34 40 50

5.) List all of the numbers that equal 70 when rounded to the nearest 10.

2.) Round the nearest 100.

146 \_\_\_\_\_

408 \_\_\_\_\_

791 \_\_\_\_\_

329 \_\_\_\_\_

4.) List 6 numbers equal 500 when rounded to the nearest 100.

6.) Circle the numbers that correctly round to the nearest 10.

32 -> 40

17 -> 20

23 -> 30

### POWER MATH PRACTICE JOURNAL 3.NBT.1

7.) A video game finds the total score by rounding the score for each level to the nearest 10 and then adding the scores. If you earn 33 on level one, 59 on level two, and 63 on level three, what will your total score be?

8.) Which is closer to the actual sum: rounding these numbers to the nearest 10 before adding them or to the nearest 100 before adding them?

699
431
309
541

9.) This chart shows how far you drove on each day of your family trip. What is the total miles driven if you add and then round to the nearest 10?

793
306
686
579

10.) You want to buy books that cost \$8, \$21, \$34, \$17, and \$12. Round each price to the nearest ten dollars and then add the prices together.

Don't miss out on more

# POWER Problems!



TANYA YERO Teaching💡

**3RD GRADE**  
**P**OWER  
PROBLEMS

**4TH GRADE**  
**P**OWER  
PROBLEMS

**5TH GRADE**  
**P**OWER  
PROBLEMS

**3RD GRADE**  
**P**OWER  
Problems **HD**

**4TH GRADE**  
**P**OWER  
Problems **HD**

**5TH GRADE**  
**P**OWER  
Problems **HD**

**3RD GRADE**  
**P**OWER  
Math Journal

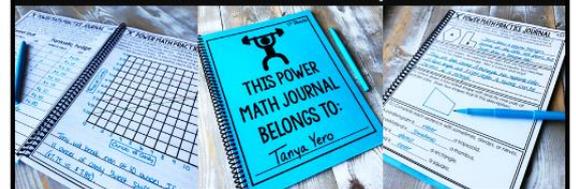
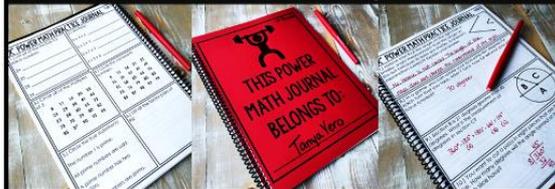
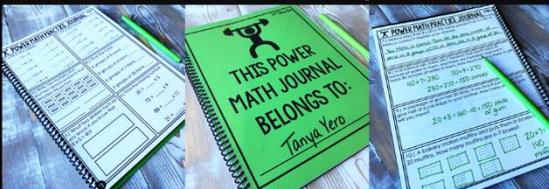
**4TH GRADE**  
**P**OWER  
Math Journal

**5TH GRADE**  
**P**OWER  
Math Journal

250 Questions \* Test Prep \* Practice

280 Questions \* Test Prep \* Practice

260 Questions \* Test Prep \* Practice



Procedural & Conceptual Understanding

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RIGOROUS  
QUESTIONS

CONCEPTUAL  
THINKING

OPEN ENDED  
QUESTIONS

TEST PREP  
RESOURCES

# WHAT ARE POWER PROBLEMS?



**PURPOSEFUL** - These problems are meant to keep students focused, while strengthening initiative and perseverance.



**OPPORTUNITIES** - These prompts can be used in a variety of ways. P.O.W.E.R problems can be used to introduce a lesson, spiral review, or as formative assessments.

## WITH



**ENGAGEMENT** - Problems are real word applicable and designed to hook students with interest and presentation. Complexity of problems promotes problem solving skills.



**RIGOR** - Tasks are specifically designed to challenge students and assess conceptual understanding of curriculum versus procedural understanding. Students will need to apply more than just a "formula."

# WHY USE POWER PROBLEMS?

BUILD STAMINA WITHIN  
YOUR STUDENTS



## MORE THAN JUST A COOKIE CUTTER TEXTBOOK APPROACH

- P.O.W.E.R problems are designed to challenge your students with their open ended presentation. Majority of problems that come from textbooks and workbooks assess procedural understanding of curriculum. Some textbooks even provide step by step instructions where the textbook is thinking for the students and taking away that "productive struggle" for children. When we rob students of that event, we rob them of their ability to reason, problem solve, and see beyond a standard algorithm. P.O.W.E.R problems are meant to show students that there are different ways to answer one question in math. With these tasks students take ownership and are part of the problem solving process versus filling in blanks in a textbook.

# HOW TO USE POWER PROBLEMS

YOUR KIDS. YOUR  
CHOICE. FLEXIBILITY.



**TO INTRODUCE A LESSON** - P.O.W.E.R problems can be used to introduce a new skill. In this case your students will experience a "productive struggle." Their problem solving skills and prior knowledge will kick in. Often times most of my students will have the incorrect answer or no answer at all. I then have someone explain their method/reasoning and allow my students to critique their peer's answer. This makes for great accountable talk discussions. If I see that most students do not have an answer I will assist the class in getting to a specific point and then allow them to finish independently.



**SPIRAL REVIEW** - Avoid your students forgetting standards by using P.O.W.E.R problems to spiral review previously taught lessons.



**FORMATIVE ASSESSMENTS** - You can use these problems to assess mastery and levels of understanding.