

NUMBER \& OPERATIONS IN BASE TEN
14 place value partner games
by Angela Watson


## Build It, Add It, Subtract It

Materials: Base Ten Blocks sorting mat, Build It Add It Subtract It spinner, base ten block manipulatives

Directions: You and your partner each choose a number between 100 and 900 and represent that number using base ten blocks. Take turns looking at each other's base ten blocks and guessing your partner's number. Award one point for each correct guess. Then take turns spinning the spinner and using mental math to figure out the new number. For example, if your partner built 250 and you spun -10, you would say, "250-10=240." You can use the base ten blocks to check your work if needed. Award each player a point for correctly figuring out the new number. Keep playing until time is up. The player with the most points wins the game!

Challenge: Can you compare your number to your partner's number? Write a number sentence using greater than and less than signs to show which amount is bigger.


## Math Talk:

What does zero represent in a number? How can changing one digit affect the value of a number? What strategies did you use when comparing numbers? What patterns did you notice when adding/subtracting 10? 100?

CCSS: Use place value understanding and properties of operations to add and subtract.
2.NBT.B.Z Add and subtract within 1000, 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. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds.

I can choose an appropriate strategy for solving an addition or subtraction problem within 1000. I can explain how the strategy was used to write the equation.
I can compose hundreds and tens when necessary to add within 1000 (e.g. regrouping, carrying.)
I can decompose hundreds and tens when necessary to subtract within 1000 (e.g. regrouping, borrowing.)
2.NBT.B. 8 Mentally add 10 or 100 to a given number 100-900, and mentally subtract 10 or 100 from a given number 100-900.

I can apply knowledge of place value to mentally add 10 to a given number 100-900.
I can apply knowledge of place value to mentally add 100 to a given number 100-900.
I can apply knowledge of place value to mentally subtract 10 from a given number 100-900.
I can apply knowledge of place value to mentally subtract 100 from a given number 100-900.

Game Direction Pages


Game Resource Pages: Cards, Game Boards, Etc.

| 0 | 1 | 2 | 3 |
| :--- | :--- | :--- | :--- |
| 4 | 5 | 6 | 7 |
| 8 | 9 | 0 | 1 |
| 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 |



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All Pages in Product



| Pg. | Game Title | Main Skills | CCSS |
| :---: | :---: | :--- | :--- | :--- |
| 20 | Guess My Card | Understand the value of each digit; <br> represent a number with base ten blocks | 2.NBT.A.1 |



## GOME Mateviasth Hesembly instuletions

| Pg. | Game | Materials |
| :---: | :---: | :--- |
| 20 | Guess My <br> Card | Two Base Ten Blocks Sorting Mats, place value cards (numbers are the <br> easiest, but you could use number words, expanded form, etc.), base ten <br> block manipulatives, pencil/paper to keep score (print pgs 38-45 \& 58) |
| 21 | Mystery <br> Number | Mystery Number cards in plastic page protectors, Vis-à-Vis markers, <br> paper towels, blank paper or math journals, pencils (print pgs 47-49) |
| 22 | Place <br> Value Go <br> Fish | Place value cards (numbers and expanded form only, except for the <br> challenge) print pgs 38-39 and 42-45) |
| 23 | Number <br> Line Race | Number Line Race game boards (two pages), game pieces, Number Line <br> Race spinner print pgs 50-51, 52 or 53, and 54) |
| 25 | Count On <br> Numbers <br> 4 | Two dice, Problem-Solving game mat in a plastic page protector with <br> Vis-à-Vis Markers for writing and paper towels for erasing (or use blank <br> paper and pencils) (print pg 55) |
| 32 | Numbers Four Ways game board for each player, place value cards <br> (numbers, base ten block models, expanded form, and word names) <br> (print pgs 34-36 and 56) |  |
| 26 | Hit the <br> Target | Build It, <br> Add It, <br> Subtract It |
| 27 | Hit the Target game board, number cards 0-9, paper or math journals, <br> pencils (print pgs 34 and 64) |  |
| Base Ten Blocks sorting mat, Build It Add I Subtract It spinner, base ten |  |  |
| block manipulatives (print pgs 58, 60-61) |  |  |

Subtract It
Base Ten Blocks sorting mat, Build It Add I Subtract It spinner, base ten block manipulatives (print pgs 58, 60-61)

## Math Partner Games: 2nd Grade Number \& Operations in Base Ten

 14 Common Core-aligned games for place value
## How do math partner games align with CCSS?

The games in this PDF were created for (not retro-fitted to) the Common Core State Standards (CCSS) for second grade math. There is at least one game for each of the number and operations in base ten standards. The table on page 15 shows you which standard(s) are addressed in each game.

The standards as well as "I Can" statements with child-friendly language are included in each game's instructions. Since there isn't one set of "I Can" statements that all states use, l've chosen terminology that I think is simple and easy for you to make sense of.

Additionally, the "Model and reinforce mathematical practices" domain of the CCSS is integrated in each and every game through the actual game play, the "math talk" discussion/reflection prompts, or both. (You can find more math talk questions here.) The standards for math practices are:

MP1 Make sense of problems and persevere in solving them.
MP2 Reason abstractly and quantitatively.
MP3 Construct viable arguments and critique the reasoning of others.
MP4 Model with mathematics.
MP5 Use appropriate tools strategically.

- MP6 Attend to precision.
- MP7 Look for and make use of structure.

MP8 Look for and express regularity in repeated reasoning.
What's a math partner game?






## BUT WAIT! THERE'S MORE...

I'm Angela Watson, the creator of this resource. I'm a National Board Certified Teacher with a masters degree in Curriculum and Instruction, and have 11 years of classroom teaching experience and over a decade of experience as an instructional coach. I currently work as a Productivity and Mindset Specialist in the area of educational consulting. In practical terms, this means I author books, design curriculum, and provide professional development services. Everything I do is centered on sharing more effective, efficient, and enjoyable ways of teaching and learning!

I founded my website (TruthforTeachers.com) in 2003 to connect with other educators. You can now find thousands of adfree articles and resources there from me and our K-12 teacher-writer's collective.

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