THE JUMBO BOOK OF VISUAL SUBTRACTION STRATEGY FLASHCARDS

FACTS WITHIN 20 SAMPLER

FLASHCARD GAMES INCLUDE

- SUBTRACTION BATTLE
- NUMBER LINE IT!
- FACT FAMILIES
- TEN FRAME IT!
- PART PART WHOLE IT!
- WHAT'S MISSING
- CLIP IT!
- FLIP IT!
- DICE IT!
- PICTURE IT!

GIGGLENOOK PUBLISHING

THE JUMBO BOOK OF VISUAL SUBTRACTION STRATEGY FLASHCARDS WITHIN 20

MATH FACT FLUENCY PLAYGROUND LLC
BRIDGEPORT, CT

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Flashcards created by
Dr. Nicki Newton

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EXERCISING YOUR BRAIN!

THIS BOOK WILL HELP YOU PRACTICE YOUR MATH FACT FLUENCY! MATH FACT FLUENCY IS 3 THINGS:

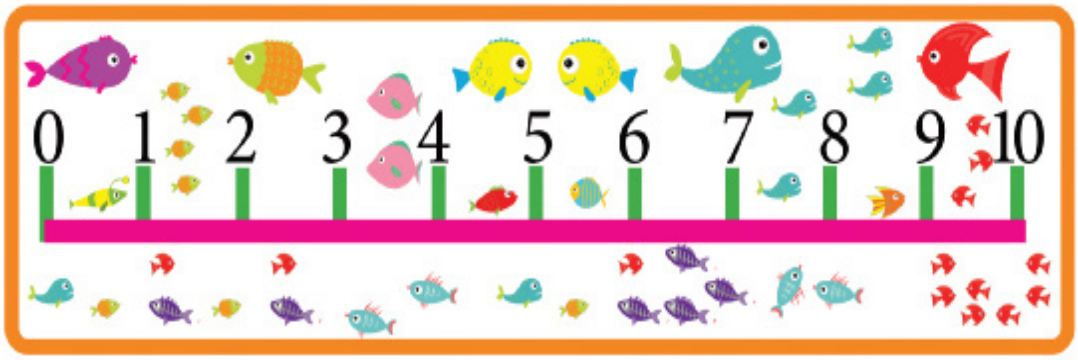
1. GETTING THE CORRECT ANSWER AND KNOWING HOW TO EXPLAIN IT.
2. BEING ABLE TO THINK FLEXIBLY (KNOWING LOTS OF WAYS TO PLAY AROUND WITH THE NUMBERS).
3. BEING EFFICIENT (WHICH MEANS YOU CAN FIND A WAY TO DO IT THAT IS QUICK AND EASY)!

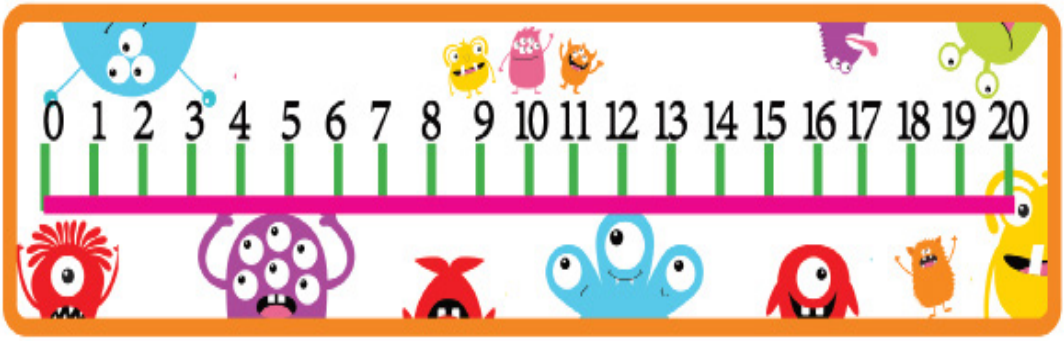
PRACTICING IN MANY DIFFERENT WAYS WILL HELP YOU TO BECOME AUTOMATIC! THIS MEANS YOU DON'T EVEN HAVE TO THINK ABOUT THE PROBLEM, YOU JUST KNOW IT!

THESE VISUAL MATH FLASHCARDS WILL DO ALL OF THE ABOVE.

HAPPY MATHING!

THIS PAGE HAS A FEW TOOLS TO HELP YOU SOLVE THE PROBLEMS. THERE IS A NUMBER PATH, NUMBER LINE AND NUMBER LADDER, TO HELP YOU ACT OUT THE PROBLEMS! THERE IS AN ANSWER KEY IN THE BACK OF THE BOOK SO YOU CAN CHECK YOUR WORK AT THE END TOO!





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SUBTRACTING 0

Subtracting 0 is a difficult idea for many students. Many argue that subtracting 1 is easier because you have a quantity to think about. Students should have many hands on experiences working with this concept. Research states that kindergarten and first grade students should work on number paths. However, most state standards discuss the number line. We have worked with both throughout the book.

1 - 0

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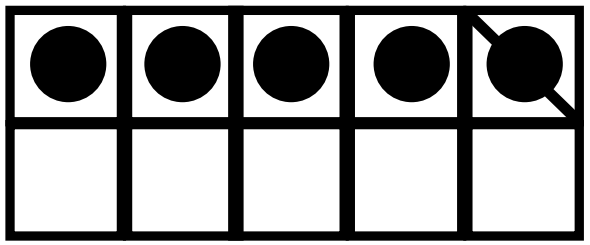
SUBTRACTING 1

Subtracting 1 is an important concept. Students should understand that it is the number before. They are taking away 1 so the number is getting smaller. These visual flashcards allow students to see the math.

5 - 1



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SUBTRACTING WITHIN 5

Kindergarteners should work on fluency within 5 and in some states within 10. Our next set of cards explore how students can use the number paths to figure out the answer.

5 - 3

1	2	3	4	5

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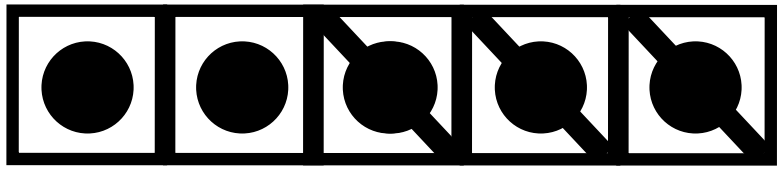
SUBTRACTING WITHIN 5

Kindergarteners should work on fluency within 5 and in some states within 10. Our next set of cards explore subtracting within 5 on a five frame.

5 - 3



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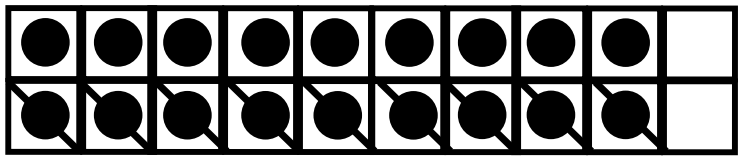
HALF FACTS

It is important that students recognize the relationships between half facts and doubles facts. Halving is more challenging than doubling. If students relate the two strategies, and make sense of them together, they will be able to use this information with other types of numbers. We use a ten frame so that students can visualize the half facts.

18 - 9



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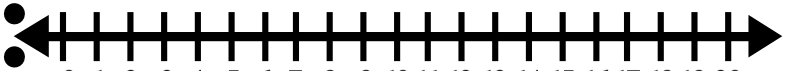
COUNTING BACK 1,2,3

Count back facts are important. Students should be able to talk about what is happening when we subtract 1,2 or 3 from a number. They should know differences of 1 or 2 comfortably. They should also have the strategy of counting back when they see 3. They should be able to use the count up strategy as well.

20 - 1



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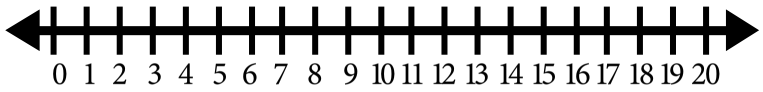
BRIDGING 10

Bridging 10 is a tricky concept for many students. It is important to work concretely, pictorially and abstractly with these concepts. Notice that these cards help students learn how to bridge through ten, when counting back. Students can practice counting back to 10 and then down some more. Or counting up to 10 and then on some more.

12 - 9



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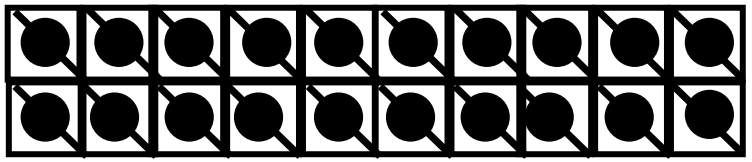
SUBTRACTING A NUMBER FROM ITSELF

Students should recognize that when they subtract a number from itself, the answer will always be zero. Students should explain their thinking.

20 - 20



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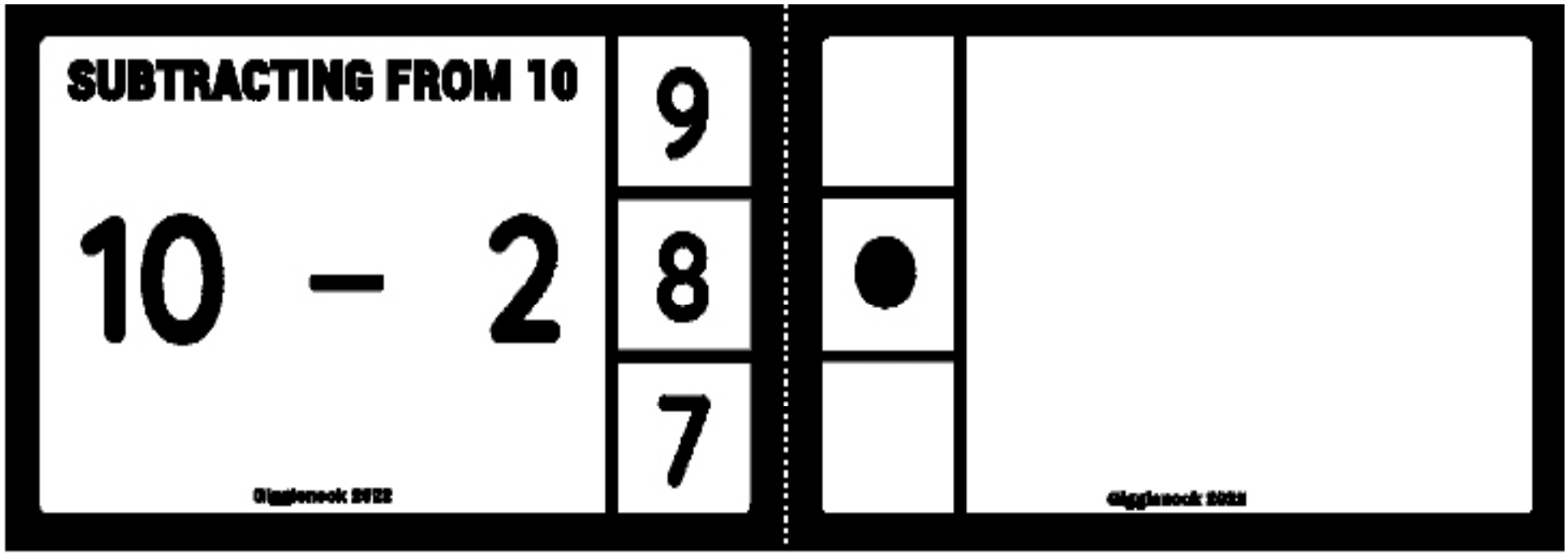
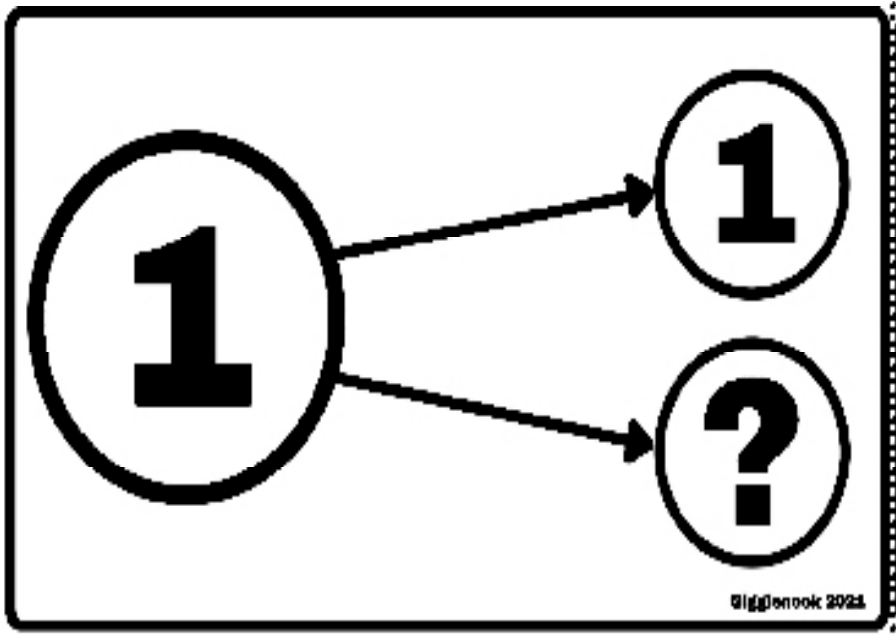
CLIP CARDS

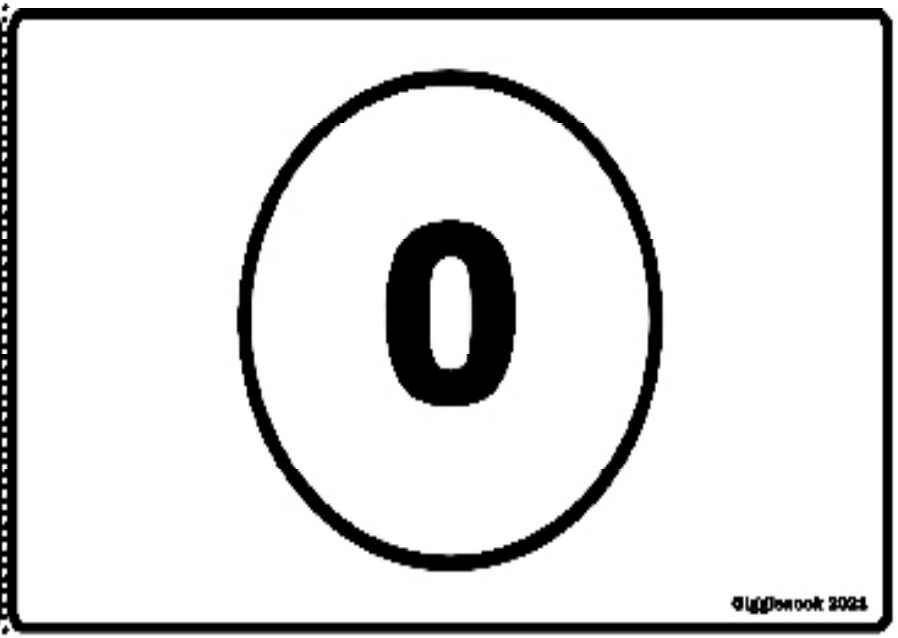
These are clip cards. They are a great bridge for students who are practicing for instant recall. This is after students understand strategies, can explain their thinking and are working on practice over time. Students pick an answer and check the back. They should explain why they picked that answer and how they know that they are correct. These are a great scaffold to moving onto regular, traditional flashcards.



NUMBER BONDS

Numbers bonds cards are a great way to develop whole part thinking. Students should work with these and explain how they found the answer. They could either count up or count back. These cards are great to practice along with part part whole cards.

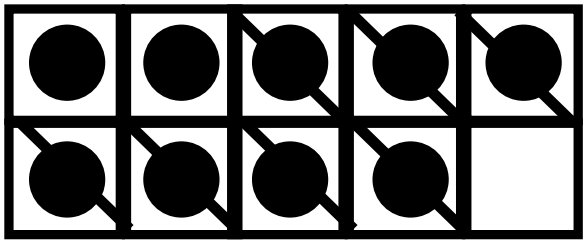




DIFFERENCES OF 1 or 2

Students should recognize differences of 1 or 2. They should not have to count but recognize that if the numbers are side by side they will have a difference of 1. They should also recognize numbers that are 2 apart. This takes practice and work with number lines so they have a conceptual understanding of what they are doing.

9 - 7



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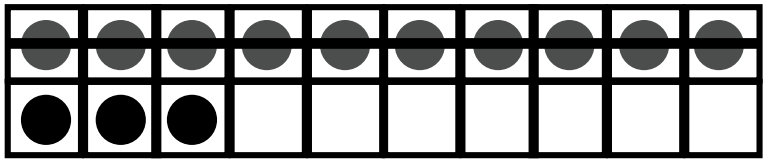
SUBTRACTING 10 FROM A NUMBER

Using 20 frame cards helps students to visualize taking ten from a number. Students should understand that if they take 10 from a teen number that they will have ones left.

WHEN YOU SUBTRACT 10 FROM A TEEN NUMBER, ONES ARE LEFT.

13 - 10



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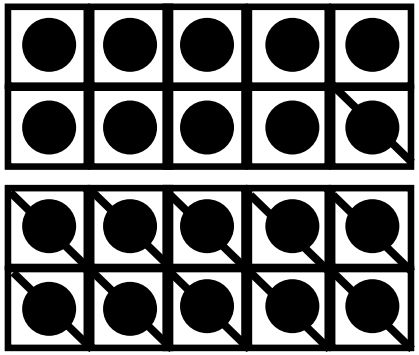
SUBTRACTING FROM 20

Subtraction within 20 is one of the 2nd grade goals in most states. After students have practiced all of the different strategies they should engage in deep review of all of the facts through games, activities and flashcards. They should name the strategy that they are using. It is important that students are not only accurate but also flexible and efficient when looking at and thinking about problems. When subtracting from 20, students should be looking at which numbers they are working with. They should also be thinking about how 10 plays into the equation. For example, they might have 20 - 15 and think, "I know 15 plus 5 more is 20. There is already one ten and 5 and 5 make another 10 which is 20. Or for example, 20 - 17, students might just count up.

20 - 11



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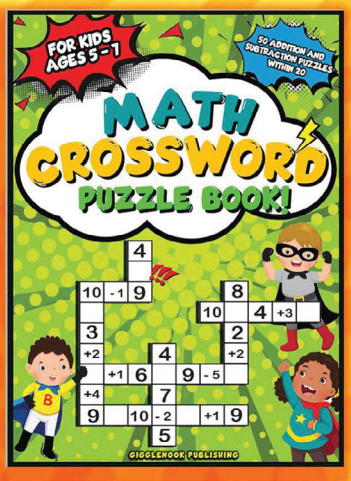
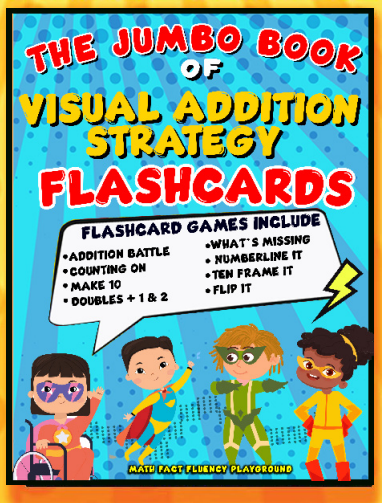
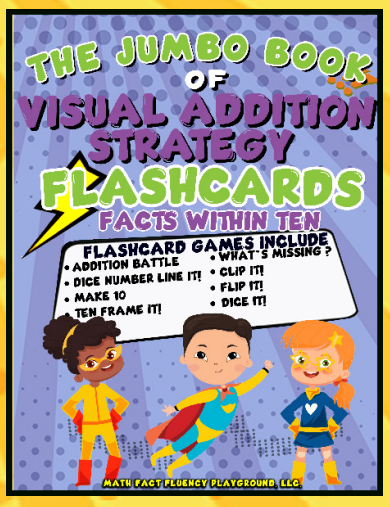
BE SURE TO CHECK OUT OTHER FLUENCY ACTIVITIES AT WWW.MATHFACTFLUENCYPLAYGROUND.COM

This activity book was created to help students with their basic subtraction facts. It is a fun and engaging way for students to practice their fundamental math facts. Purposeful, intentional practice done over time helps students to learn their facts.

CHECK OUT MORE MATHTASTIC ACTIVITIES AT WWW.MATHFACTFLUENCYPLAYGROUND.COM







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