

PROGRESSION OF SUBTRACTION

FOUNDATIONAL SKILLS

TAKE FROM 20
 $20 - 2$ $20 - 10$ $20 - 8$

SUBTRACTING HARDER FACTS
 $18 - 15$ $17 - 9$ $15 - 8$

SUBTRACTING 10 FROM A TEEN
 $15 - 10$ $17 - 10$ $19 - 10$

SUBTRACTING IS FROM A TEEN
 $14 - 4$ $16 - 6$ $15 - 5$

FACT FAMILIES

$15 - 8$ $15 - 7$ $8 + 7$ $7 + 8$

SUBTRACTING 10 FROM A NUMBER
 $12 - 10$ $15 - 10$ $16 - 10$

SUBTRACTING FROM 10
 $10 - 7$ $10 - 8$ $10 - 5$

SUBTRACTING WITHIN 10
 $7 - 2$ $6 - 1$ $8 - 5$

LOWER HALF FACTS
 $2 - 1$ $4 - 2$ $8 - 4$

DIFFERENCES OF 1 OR 2
 $7 - 6$ $9 - 7$ $8 - 7$

SUBTRACTING WITHIN 5
 $2 - 1$ $4 - 2$ $3 - 2$

SUBTRACTING 0 FROM A NUMBER
 $9 - 0$ $4 - 0$ $2 - 0$

SUBTRACTING 1 FROM A NUMBER
 $8 - 1$ $5 - 1$ $2 - 1$

RESEARCH NOTES

COUNT ALL

COUNT BACK

DERIVED STRATEGIES

AUTOMATICITY

These are not key words! It is just Math Vocabulary! Never use key words!

SUBTRACT, MINUS, HOW MANY ARE LEFT?
TAKE AWAY, LEFT, LEFT OVER, REMAINDERS, DIFFERENCE, COUNT BACK

PROGRESSION OF SUBTRACTION

JOURNEY TO FLUENCY

RESEARCH NOTES

1 COUNT ALL

2 COUNT BACK

3 DERIVED STRATEGIES

4 AUTOMATICITY

These are not key words! It is just Math Vocabulary! Never use key words!

SUBTRACTING 1 FROM A NUMBER

$$5 - 1$$

SUBTRACTING 0 FROM A NUMBER

$$4 - 0$$

SUBTRACTING WITHIN 5

$$2 - 1$$

DIFFERENCES OF 1 OR 2

$$7 - 6$$

SUBTRACTING FROM 10

$$10 - 7$$

SUBTRACTING WITHIN 10

$$8 - 5$$

LOWER HALF FACTS

$$10 - 5$$

SUBTRACTING 10 FROM A NUMBER

$$16 - 10$$

FACT FAMILIES

$$\begin{array}{l} 15 - 8 \quad 15 - 7 \\ 8 + 7 \quad 7 + 8 \end{array}$$

SUBTRACTING 1s FROM A TEEN

$$14 - 4$$

SUBTRACTING HARDER FACTS

$$15 - 8$$

SUBTRACTING 10 FROM A TEEN

$$19 - 10$$

TAKE FROM 20

$$20 - 8$$

SUBTRACT, MINUS, HOW MANY ARE LEFT?

TAKE AWAY, LEFT, LEFT OVER, REMAINDERS, DIFFERENCE, COUNT BACK

PROGRESSION OF SUBTRACTION

JOURNEY TO FLUENCY

TAKE FROM 20

$$20 - 2 \quad 20 - 10 \quad 20 - 8$$

SUBTRACTING HARDER FACTS

$$18 - 15 \quad 17 - 9 \quad 15 - 8$$

SUBTRACTING 10 FROM A TEEN

$$15 - 10 \quad 17 - 10 \quad 19 - 10$$

SUBTRACTING IS FROM A TEEN

$$14 - 4 \quad 16 - 6 \quad 15 - 5$$

FACT FAMILIES

$$15 - 8 \quad 15 - 7 \quad 8 + 7 \quad 7 + 8$$

SUBTRACTING 10 FROM A NUMBER

$$12 - 10 \quad 15 - 10 \quad 16 - 10$$

SUBTRACTING FROM 10

$$10 - 7 \quad 10 - 8 \quad 10 - 5$$

SUBTRACTING WITHIN 10

$$7 - 2 \quad 6 - 1 \quad 8 - 5$$

LOWER HALF FACTS

$$2 - 1 \quad 4 - 2 \quad 8 - 4$$

DIFFERENCES OF 1 OR 2

$$7 - 6 \quad 9 - 8 \quad 8 - 7$$

SUBTRACTING WITHIN 5

$$2 - 1 \quad 4 - 2 \quad 3 - 2$$

SUBTRACTING 0 FROM A NUMBER

$$9 - 0 \quad 4 - 0 \quad 2 - 0$$

SUBTRACTING 1 FROM A NUMBER

$$8 - 1 \quad 5 - 1 \quad 2 - 1$$

RESEARCH NOTES

AUTOMATICITY

DERIVED STRATEGIES

COUNT BACK

COUNT ALL

These are not key words! It is just Math Vocabulary! Never use key words!

SUBTRACT, MINUS, HOW MANY ARE LEFT?

TAKE AWAY, LEFT, LEFT OVER, REMAINDERS, DIFFERENCE, COUNT BACK

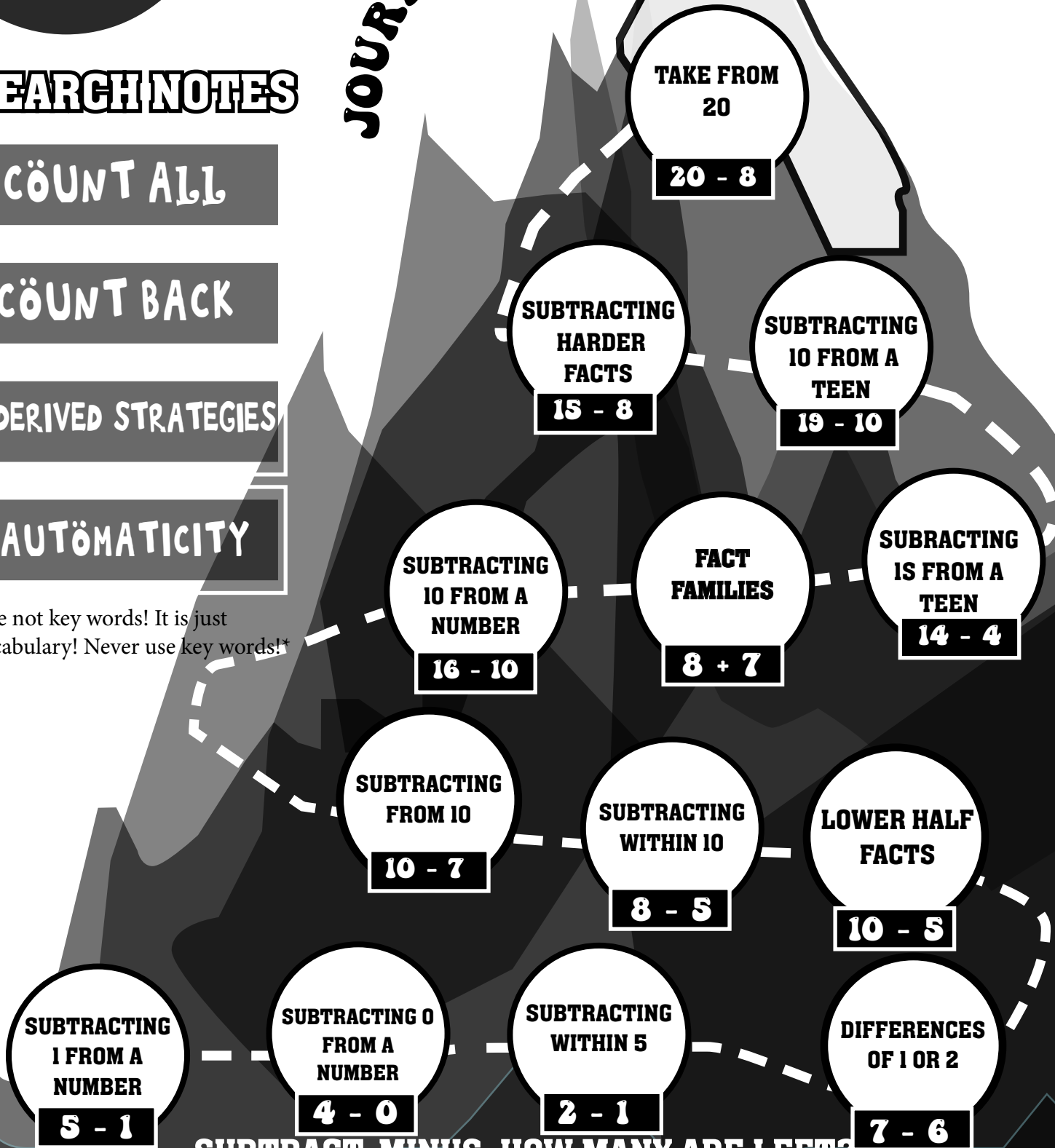
PROGRESSION OF SUBTRACTION

JOURNEY TO FLUENCY

RESEARCH NOTES

- 1 COUNT ALL
- 2 COUNT BACK
- 3 DERIVED STRATEGIES
- 4 AUTOMATICITY

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SUBTRACT, MINUS, HOW MANY ARE LEFT?

TAKE AWAY, LEFT, LEFT OVER, REMAINDERS, DIFFERENCE, COUNT BACK

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About the Dr. Nicki Newton



Dr. Nicki Newton is an education consultant who works with schools and districts around the country and Canada on K-8 math curriculum. She has taught elementary school, middle school, and graduate school. Dr. Nicki has an Ed.M. and an Ed.D. from Teachers College Columbia University. She is greatly interested in teaching and learning practices around the world and has researched education in Denmark, Guatemala and India. She has written several books, including being a part of the curriculum team for the new McGraw Hill *Reveal Math* series. She is currently working on a book about counting.

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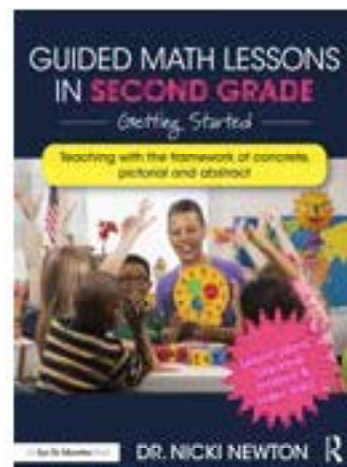
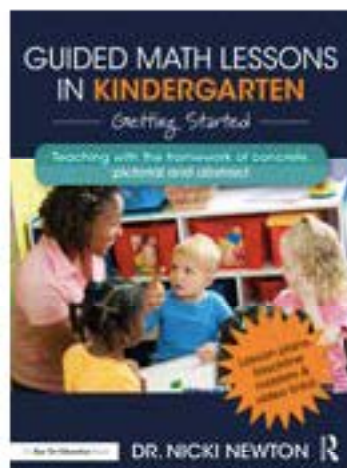
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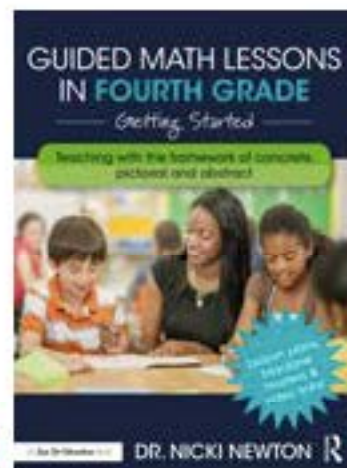
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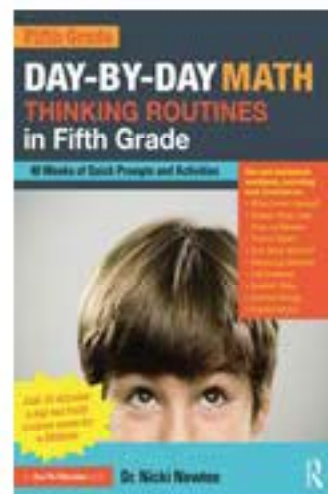
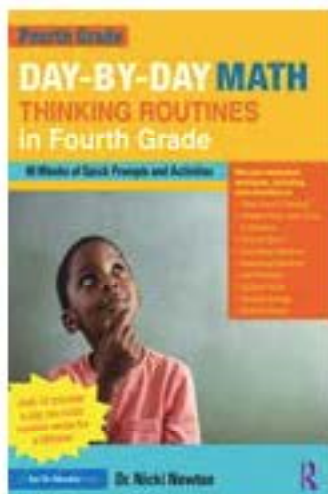
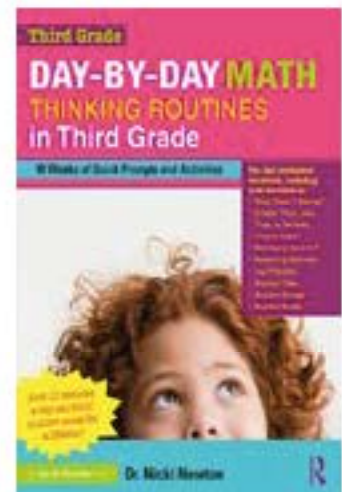
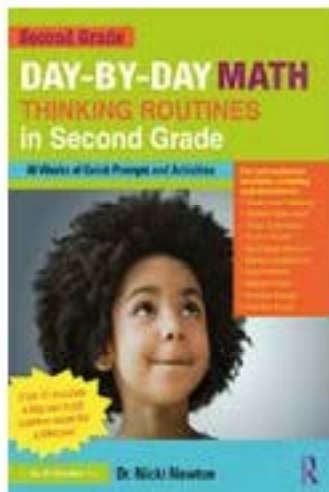
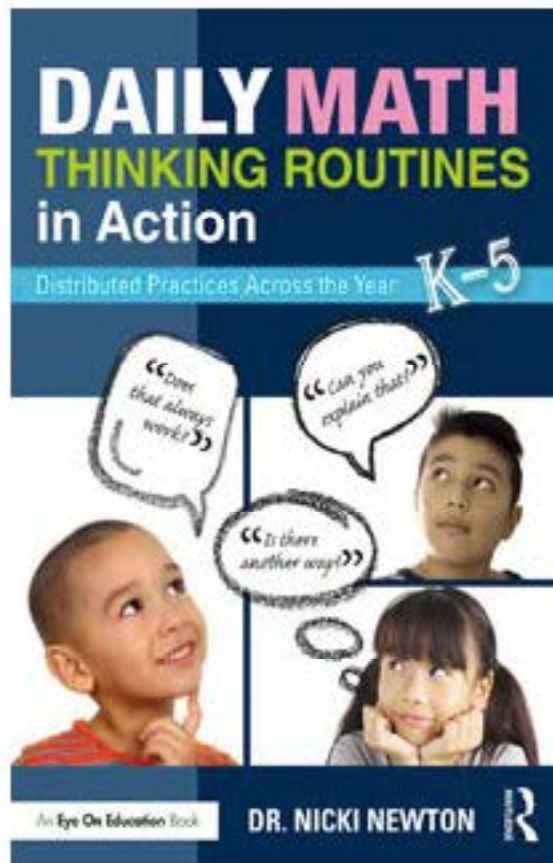
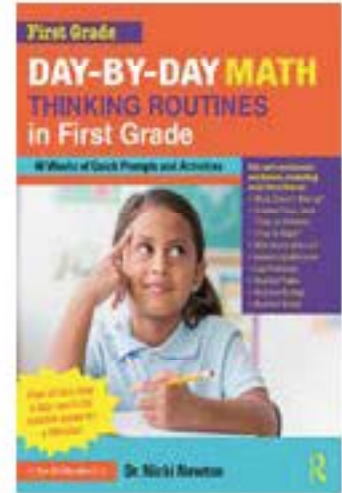
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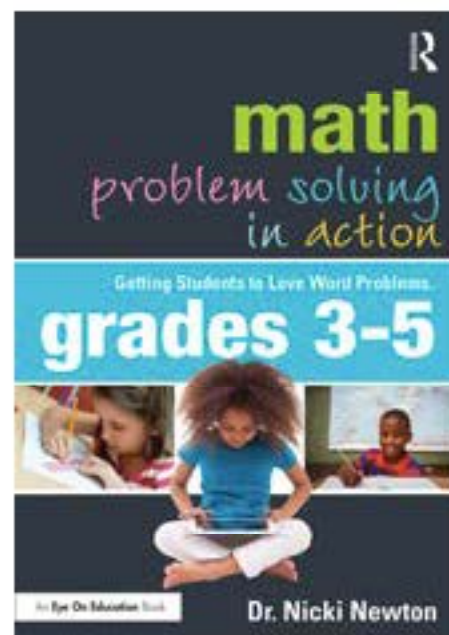
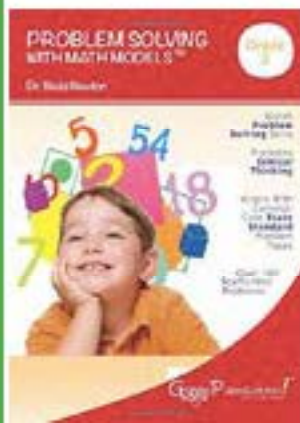
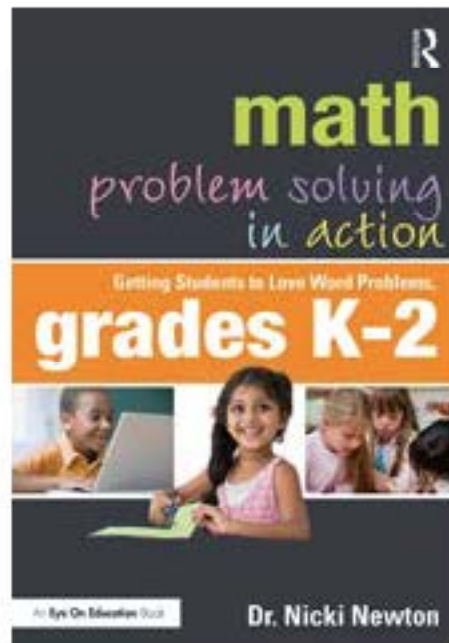


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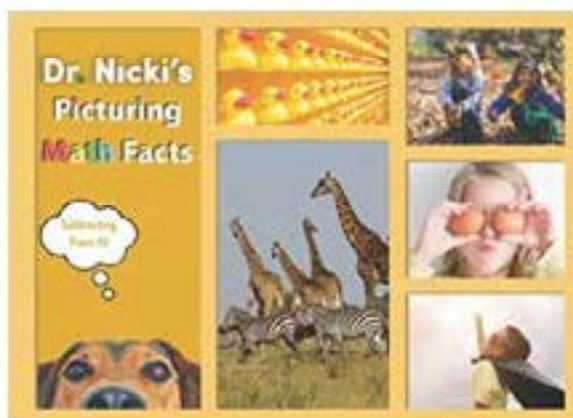
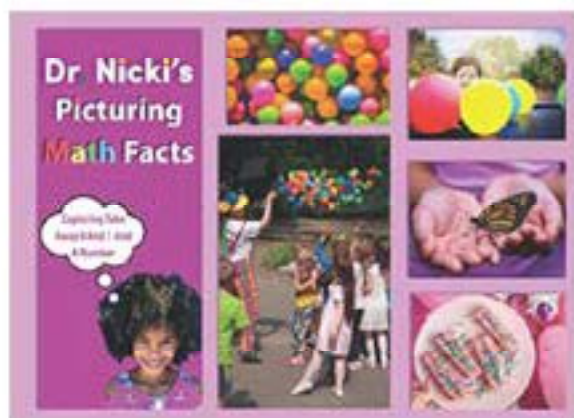
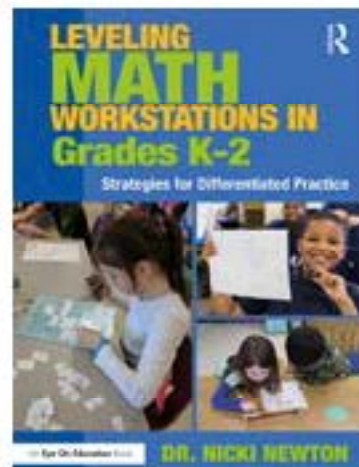
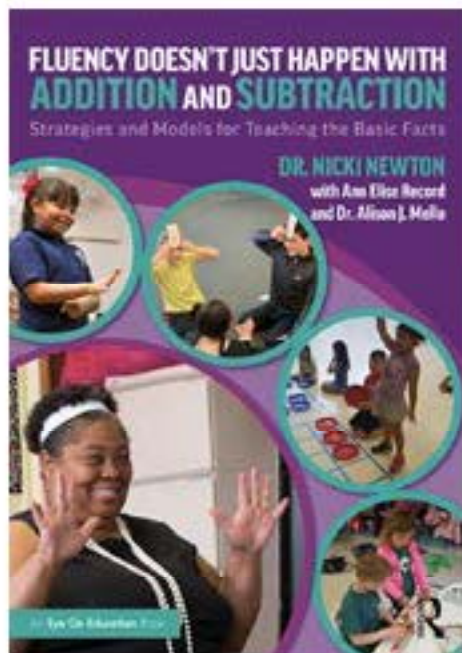
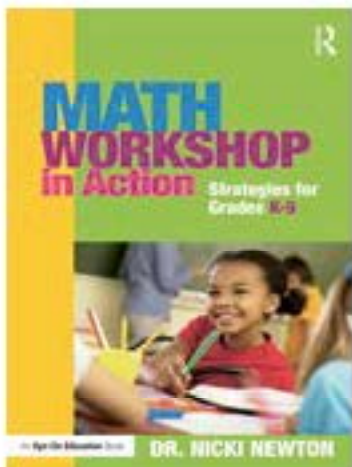
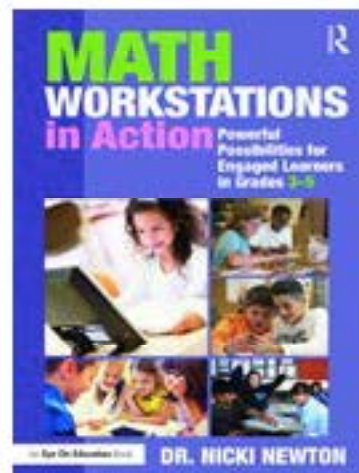
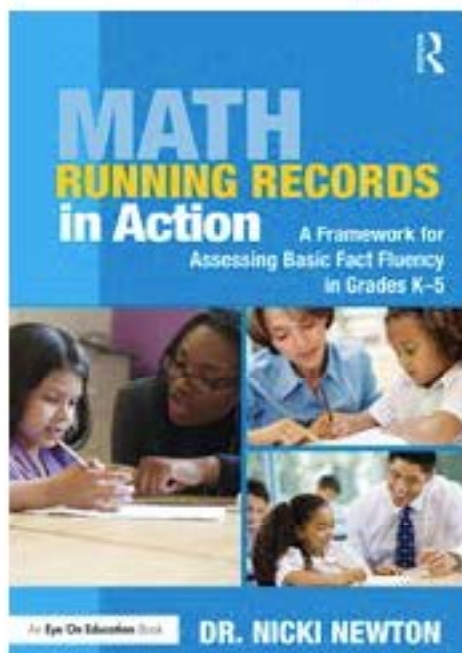
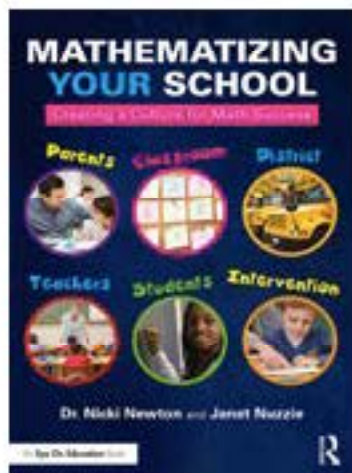
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