

PROGRESSION OF SUBTRACTION



JOURNEY TO FLUENCY

SUBTRACT FROM 20
 $20 - 2$ $20 - 10$ $20 - 8$

THINKING ABOUT NUMBER RELATIONSHIPS
(WITHIN 20)

$18 - 15$ $17 - 9$ $15 - 8$

SUBTRACTING ONES FROM A TEEN NUMBER

$19 - 9$ $16 - 6$ $11 - 1$

SUBTRACTING 10 FROM A TEEN NUMBER

$19 - 10$ $17 - 10$ $11 - 10$

SUBTRACTING WITHIN 10

$10 - 3$ $10 - 7$ $10 - 6$

SUBTRACTING FROM 10

$9 - 5$ $6 - 1$ $3 - 2$

DIFFERENCES OF 1 OR 2

$10 - 8$ $7 - 6$ $5 - 3$

SUBTRACTING A NUMBER FROM ITSELF

$8 - 8$ $7 - 7$ $4 - 4$

COUNTING BACK 1,2,3

$3 - 2$ $5 - 1$ $8 - 2$

LOWER HALF FACTS

$2 - 1$ $4 - 2$ $8 - 4$

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

$8 - 1$ $5 - 1$ $2 - 1$

FLUENCY IS

EFFICIENCY

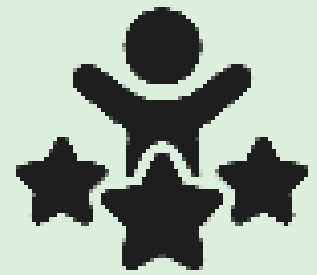
ACCURACY

FLEXIBILITY

(NRC; Kilpatrick et al., 2001; NCTM 2000; NCTM, 2014).

SET A GOAL. MAKE A PLAN. ACHIEVE YOUR GOAL!

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JOURNEY TO FLUENCY

FLUENCY IS

1 EFFICIENCY

2 ACCURACY

3 FLEXIBILITY

(NRC; Kilpatrick et al., 2001; NCTM 2000; NCTM, 2014).

SUBTRACTING 1 FROM A NUMBER
 $5 - 1$

SUBTRACTING 0 FROM A NUMBER
 $4 - 0$

SUBTRACTING WITHIN 5
 $3 - 2$

LOWER HALF FACTS
 $10 - 5$

DIFFERENCES OF 1 OR 2
 $10 - 8$

SUBTRACTING A NUMBER FROM ITSELF
 $8 - 8$

COUNTING BACK 1, 2 OR 3
 $8 - 2$

SUBTRACTING FROM 10
 $9 - 7$

SUBTRACTING WITHIN 10
 $10 - 3$

YAY! I CAN SUBTRACT WITHIN 10!

SUBTRACTING 10 FROM A TEEN NUMBER
 $19 - 10$

SUBTRACTING ONES FROM A TEEN NUMBER
 $19 - 9$

THINKING ABOUT NUMBER RELATIONSHIPS (WITHIN 20)
 $15 - 8$

SUBTRACT FROM 20
 $20 - 8$

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SUBTRACT FROM 20
20 - 2 20 - 10 20 - 8

THINKING ABOUT NUMBER RELATIONSHIPS (WITHIN 20)

18 - 5 17 - 9 15 - 8

SUBTRACTING ONES FROM A TEEN NUMBER

19 - 9 11 - 1 13 - 3

SUBTRACTING 10 FROM A TEEN NUMBER

19 - 10 13 - 10 11 - 10

SUBTRACTING WITHIN 10

10 - 3 10 - 6 10 - 4 10 - 9

SUBTRACTING FROM 10

9 - 7 4 - 5 8 - 4

DIFFERENCES OF 1 OR 2

10 - 8 5 - 3 7 - 6

SUBTRACTING A NUMBER FROM ITSELF

9 - 9 1 - 1 4 - 4

COUNTING BACK 1,2,3

8 - 2 7 - 3 2 - 1

LOWER HALF FACTS

2 - 1 4 - 2 8 - 4

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

FLUENCY IS

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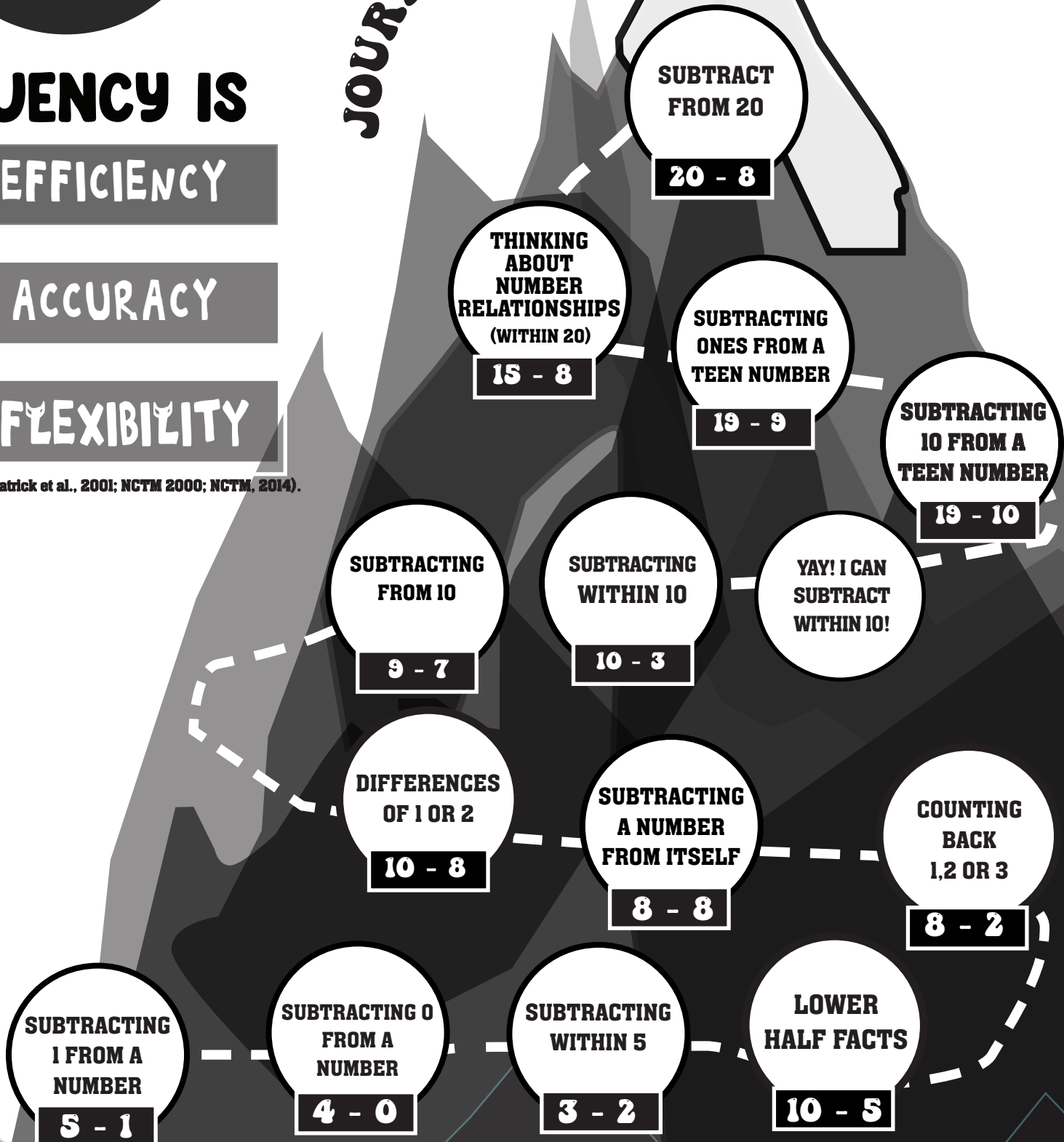
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