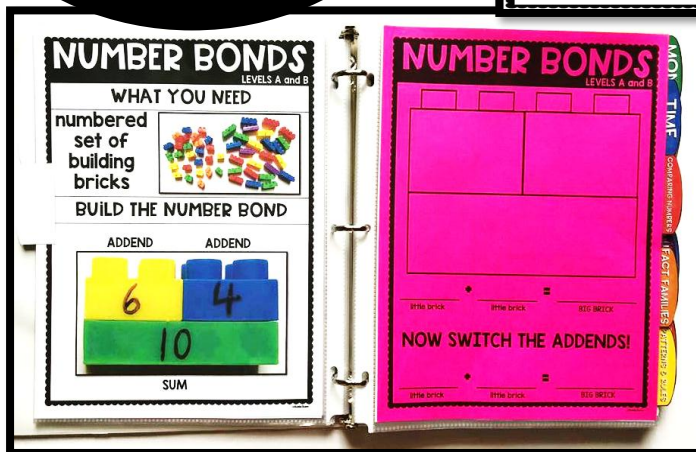
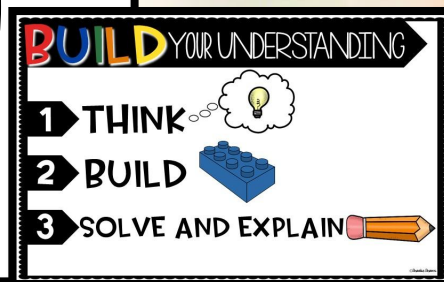
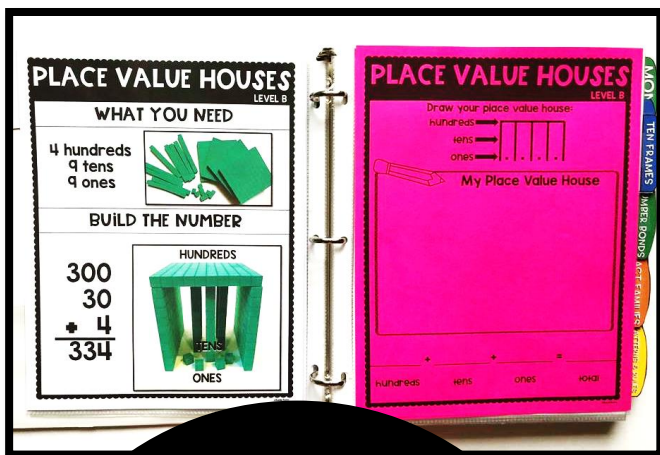


MAKER MATH



HANDS-ON MATH FOR K-2ND GRADE



- MATH CENTERS
- SMALL GROUPS
- INTERVENTIONS
- TUTORING

DOUBLE TEN FRAMES

LEVEL B

WHAT YOU NEED

TEN FRAMES

LEVEL A

WHAT YOU NEED

ten frame and 10 snap cubes



BUILD THE NUMBER



PLACE VALUE FENCES

LEVEL A

WHAT YOU NEED

9 tens
9 ones

BUILD THE NUMBER
FENCES AND THE O



FACT FAMILIES

LEVELS A and B

WHAT YOU NEED

numbered
set of
mini cups



BUILD A PYRAMID TO SHOW
THE FACT FAMILY.



$$\begin{aligned} 9 + 8 &= 17 \\ 8 + 9 &= 17 \\ 17 - 9 &= 8 \\ 17 - 8 &= 9 \end{aligned}$$

SHAPES

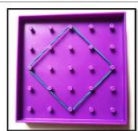
LEVEL A

WHAT YOU NEED

geoboard
and
6 rubber bands



USE YOUR GEOBOARD AND RUBBER
BANDS TO MAKE TWO-DIMENSIONAL
SHAPES.



FRACTIONS

LEVELS A and B

WHAT YOU NEED

2 yellow
hexagons, 4 red
trapezoids, 6
blue rhombuses,
8 green
triangles



USE YOUR PATTERN BLOCKS TO
SHOW FRACTIONAL PARTS.



NUMBER STORY

WHAT YOU NEED

24
snap cubes,
work mat



NUMBER STORY

WHAT YOU NEED

24
snap cubes,
work mat

BUILD TOWERS
OF THE
THEN FIND THE



NUMBER BONDS

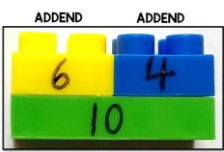
LEVELS A and B

WHAT YOU NEED

numbered
set of
building
bricks



BUILD THE NUMBER BOND



EQUAL GROUPS

LEVELS A and B

WHAT YOU NEED

50 pennies
and
10 pipe cleaner
rings



USE THE PIPE CLEANER RINGS TO MAKE
GROUPS. SORT YOUR PENNIES INTO EQUAL
GROUPS. ADD OR MULTIPLY THE PENNIES IN
EACH GROUP TO FIND THE TOTAL.



$$\begin{aligned} 3 \text{ groups of } 4 \text{ pennies} \\ 3 \times 4 &= 12 \\ 4 \times 3 &= 12 \end{aligned}$$

SUBTRACTION

LEVEL A

SUBTRACTION

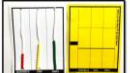
LEVEL B

TWO-DIGIT SUBTRACTION

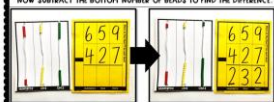
LEVEL C

WHAT YOU NEED

18 green (ones) beads,
18 yellow (tens) beads,
and 4 red (hundreds)
beads on pipe cleaners
and attached to
place value mat.
SUBTRACTION work mat



USE THE BEADS AND PLACE VALUE MAT TO MAKE THE FIRST
THREE-DIGIT NUMBER.
CHECK THE ONE'S PLACE FIRST:
IF THE ONE'S PLACE HAS BEADS IN THE BOTTOM NUMBER, TAKE AWAY 1
YELLOW TENS BEAD AND ADD 10 GREEN ONES BEADS.
(IF THERE ARE 0 TENS, REPEAT THE SAME STEPS WITH THE HUNDREDS PLACE.)
IF THE TENS PLACE HAS BEADS IN THE BOTTOM NUMBER, ADD 10 TENS
(YELLOW BEADS) AND TAKE AWAY ONE HUNDRED (RED BEAD).
NOW SUBTRACT THE BOTTOM NUMBER OF BEADS TO FIND THE DIFFERENCE.



TWO-DIGIT ADDITION

LEVEL A

TWO-DIGIT ADDITION

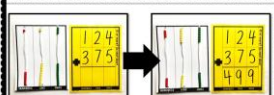
LEVEL B

WHAT YOU NEED

18 green (ones) beads,
18 yellow (tens) beads,
and 4 red (hundreds)
beads on pipe cleaners
and attached to
place value mat.
ADDITION work mat



USE THE BEADS AND PLACE VALUE MAT TO MAKE
THREE-DIGIT NUMBERS.
IF THE ONE'S PLACE HAS 10 OR MORE GREEN BEADS,
TRADE FOR 1 YELLOW TENS BEAD.
IF THE TENS PLACE HAS 10 OR MORE YELLOW BEADS,
TRADE FOR 1 RED HUNDREDS BEAD.
ADD THE TOTAL NUMBER OF BEADS TO FIND THE SUM.



THREE-DIGIT ADDITION

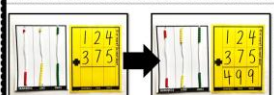
LEVEL C

WHAT YOU NEED

18 green (ones) beads,
18 yellow (tens) beads,
and 4 red (hundreds)
beads on pipe cleaners
and attached to
place value mat.
ADDITION work mat



USE THE BEADS AND PLACE VALUE MAT TO MAKE
THREE-DIGIT NUMBERS.
IF THE ONE'S PLACE HAS 10 OR MORE GREEN BEADS,
TRADE FOR 1 YELLOW TENS BEAD.
IF THE TENS PLACE HAS 10 OR MORE YELLOW BEADS,
TRADE FOR 1 RED HUNDREDS BEAD.
ADD THE TOTAL NUMBER OF BEADS TO FIND THE SUM.



SOLIDS

LEVEL B

WHAT YOU NEED

Playdough
and
18 toothpicks



USE YOUR PLAYDOUGH AND
TOOTHPICKS TO MAKE THREE-
DIMENSIONAL SOLIDS.



MEASUREMENT

LEVEL B

WHAT YOU NEED

inch ruler and
centimeter
ruler



MEASURE THE LENGTHS AND
HEIGHTS OF OBJECTS AND LINES

MEASUREMENT

LEVEL A

WHAT YOU NEED

20
snap cubes



MEASURE THE LENGTHS AND
HEIGHTS OF OBJECTS AND LINES
WITH YOUR SNAP CUBES.



15
SKILLS
WITH TWO
DIFFERENTIATED
LEVELS

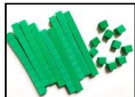
HOW MAKER MATH WORKS

PLACE VALUE FENCES

LEVEL A

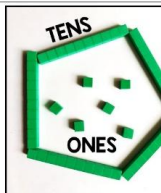
WHAT YOU NEED

9 tens
9 ones



BUILD THE NUMBER. THE TENS ARE ON THE FENCES AND THE ONES ARE COMING

$$\begin{array}{r} 50 \\ + 6 \\ \hline 56 \end{array}$$



Leveled Photo
Instructions
for Small Groups
or Centers

PLACE VALUE HOUSES

LEVEL B

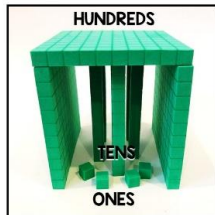
WHAT YOU NEED

4 hundreds
9 tens
9 ones



BUILD THE NUMBER

$$\begin{array}{r} 300 \\ 30 \\ + 4 \\ \hline 334 \end{array}$$



Graphic
Organizers for
Small group or
Whole Group
Instruction

PLACE VALUE teacher Prompts LEVEL A (FENCES)

USE THE FOLLOWING PROMPTS FOR TWO DIGIT NUMBERS:

- *Can you make the number _____?
- *How many ones are in the number _____?
- *How many tens are in the number _____?
- *How much is the digit _____ worth?
- *What number is 1 more than _____?
- *What number is 1 less than _____?
- *What number is 10 more than _____?
- *What number is 10 less than _____?

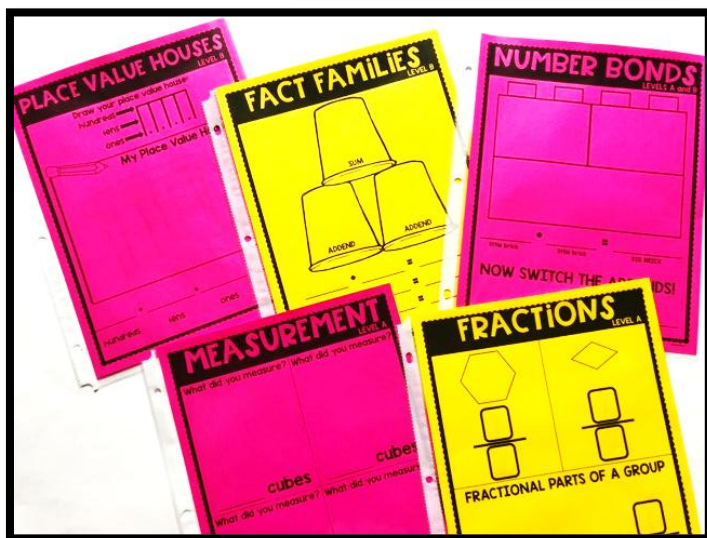
LEVEL B (HOUSES)

USE THE FOLLOWING PROMPTS FOR THREE DIGIT NUMBERS:

- *Can you make the number _____?
- *How many ones are in the number _____?
- *How many tens are in the number _____?
- *How many hundreds are in the number _____?
- *How much is the digit _____ worth?
- *Write the number _____ in expanded form.
- *What number is 1 more than _____?
- *What number is 1 less than _____?
- *What number is 10 more than _____?
- *What number is 10 less than _____?

Leveled
Teacher
Prompts
for Small
Group or
Whole
Group
Instruction

Leveled Task Cards for Centers
with Recording Sheets & Answer Keys

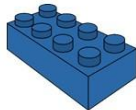


BUILD YOUR UNDERSTANDING

1 THINK



2 BUILD



3 SOLVE AND EXPLAIN



PLACE VALUE HOUSES
TASK CARD RECORDING SHEET: LEVEL B

NAME: _____

Draw your place value houses.

hundreds	tens	ones

PLACE VALUE FENCES
TASK CARD RECORDING SHEET: LEVEL A

NAME: _____

Draw your place value fences.

hundreds	tens	ones

PLACE VALUE FENCES
LEVEL A

Draw your place value fences.

hundreds	tens	ones

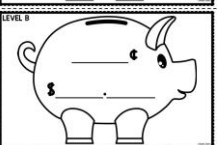
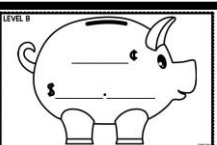
My Place Value Fence

PLACE VALUE HOUSES
LEVEL B

Draw your place value houses.

hundreds	tens	ones

My Place Value House

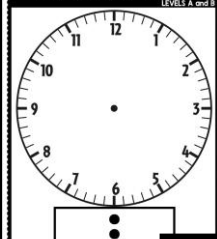


FACT FAMILIES
LEVEL A

Draw your fact families.

ADDEND	SUM	ADDEND

TELLING TIME
LEVELS A and B



Write the number: _____

DOUBLE TEN FRAMES

Draw the cubes in your double ten frame.

Write the number: _____

Is this number ODD or EVEN?

First frame Second frame TOTAL

NUMBER STORY TOWERS
LEVELS A and B

Draw your number story towers.

TOWER 1	TOWER 2	SUM

TOWER 1 TOWER 2 DIFFERENCE

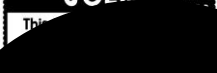
_____ _____ _____

11	12	13	14	15	16	17	18	19
21	22	23	24	25	26	27	28	29
31	32	33	34	35	36	37	38	39
41	42	43	44	45	46	47	48	49
51	52	53	54	55	56	57	58	59
61	62	63	64	65	66	67	68	69
71	72	73	74	75	76	77	78	79
81	82	83	84	85	86	87	88	89

FRACTIONS



SOLIDS



SHAPES
LEVEL A



COMPARING NUMBERS
LEVELS A and B

Draw your groups and pennies in each group.

NUMBER BONDS
LEVELS A and B

Draw your number bonds.

Part	Part	Whole

Now switch the addends!

_____ _____ _____

EQUAL GROUPS
LEVELS A and B

Draw your groups and pennies in each group.

How many groups? _____

How many in each group? _____

DIFFERENTIATED
ORGANIZERS &
TASK CARDS