20 Days of Lesson Plans and Activities

2ND grade

the MAGIC OF MATH

SHAPES & FRACTIONS

by Hope King and Amy Lemons

SHAPES & FRACTIONS
overview

	FOCUS	STANDARD
WEEK 1	2D Shapes: Attributes, Decomposing 2D Shapes	TEKS: 2.8ACDE CC: MC.2.G.A.I, MC.2.G.A.2
WEEK 2	3D Shapes: Classify & Sort, Composing 3D Shapes	TEKS: 2.8BD CC: MC.2.G.A.I
WEEK 3	Fractions: Partitioning and Naming	TEKS: 2.3AD CC: MC.2.G.A.3
WEEK 4	Fractions: Understanding Shares and Parts	TEKS:2.3BC CC: MC.2.G.A.3

DAILY LESSON PLANS

-20 Days of Lesson Plans for:

2D Shapes: Naming, Attributes, Composing, Decomposing

3D Shapes: Classifying & Sorting, Composing

Fractions: Halves, Thirds, and Fourths for CC & Halves, Fourths and Eighths for TEKS: Naming, Partitioning, Going Beyond the Whole, Understanding Equal Parts/Shares, Examples & Non-Examples

DAILY WORD PROBLEMS

20 Word Problems that fit the skills included

WORD PROBLE
The cookie was divided into f
two of the parts, how muc
Draw and

Draw divided

The cookie was divided into f
two of the parts, how muc
Draw and

Draw divided

The cookie was divided into f
two of the parts, how muc
Draw and

Draw divided

The cookie was divided into f
two of the parts, how muc
Draw and

Draw divided

The cookie was divided
two of the par

Draw divided

The cookie was div
two of the parts

Draw divided

divided into une

WORD PROBLEM- DAY THREE
Celeste and her 3 friends wanted to share
equally. Show
eve

Celeste and h
equally. Show
eve

Celeste and h
equally. Show
eve

Celeste and h
equally. Show
eve

WORD PROBLE
Malik wants to divide his
Draw to show how the pap
equal

Malik wants to divide his
Draw to show how the pap
equal

Malik wants to divide his
Draw to show how the pap
equal

Mali

WORD PROBLEM- DAY FIVE
A piece of ribbon is cut into eighths. If I used 2
parts of the cut ribbon, how many parts are left?
Draw and explain by naming the fractional parts.

A piece of ribbon is cut into eighths. If I used 2
parts of the cut ribbon, how many parts are left?
Draw and explain by naming the fractional parts.

A piece of ribbon is cut into eighths. If I used 2
parts of the cut ribbon, how many parts are left?
Draw and explain by naming the fractional parts.

A   ce of ribbon is cut into eighths. If I used 2
         f the cut ribbon, how many parts are left?
         nd explain by naming the fractional parts.

        of ribbon is cut into eighths. If I used 2
        the cut ribbon, how many parts are left?
        d explain by naming the fractional parts.

        f ribbon is cut into eighths. If I used 2
        he cut ribbon, how many parts are left?
        explain by naming the fractional parts.

DAILY WORD PROBLEMS

Erik watches 24 minutes of TV in the morning. He
watches the same amount of TV in the afternoon.
How many minutes did he spend watching TV?

$$|| \cdots \quad 24 + 24 \qquad 24$$
$$|| \cdots \quad OR \quad 20+4 \quad OR \quad +24$$
$$\underline{+|| \cdots} \quad \underline{20+4} \qquad \underline{48}$$
$$48 \qquad 40+8 = 48$$

Each day your students can solve word problems
in their math spirals. Allowing students to solve
problems in their own way helps us to know how
they are thinking! Going through these problems
together and providing support will help your
students understand the process.

WEEK ONE:

2d

shapes

DAY ONE

Minilesson: Shape Charts

Activity:
Build a Shape Sundae

Interactive Journal:
The Shape Showdown
(only glue at the top)

DAY TWO

Minilesson: Polygon and Quadrilateral sort
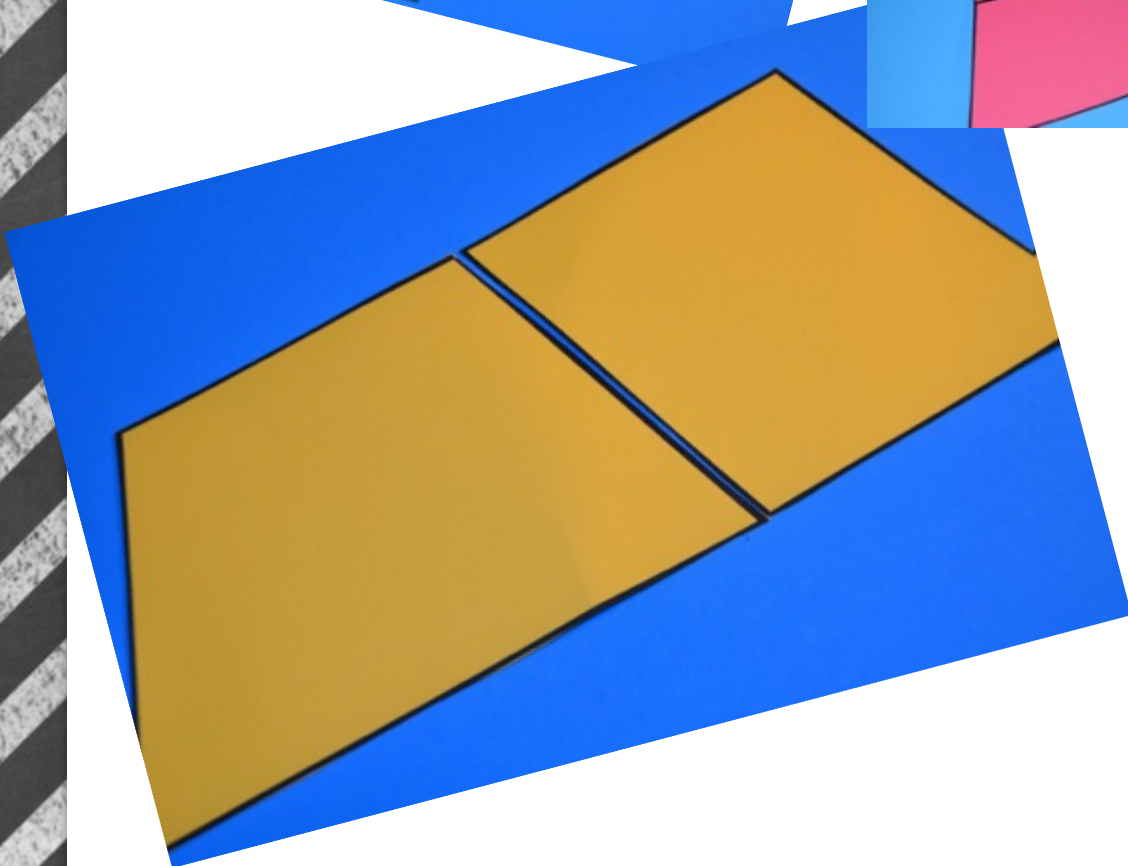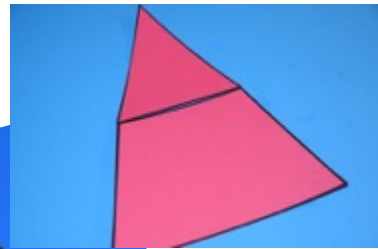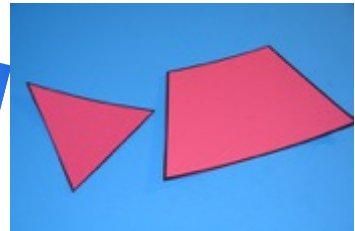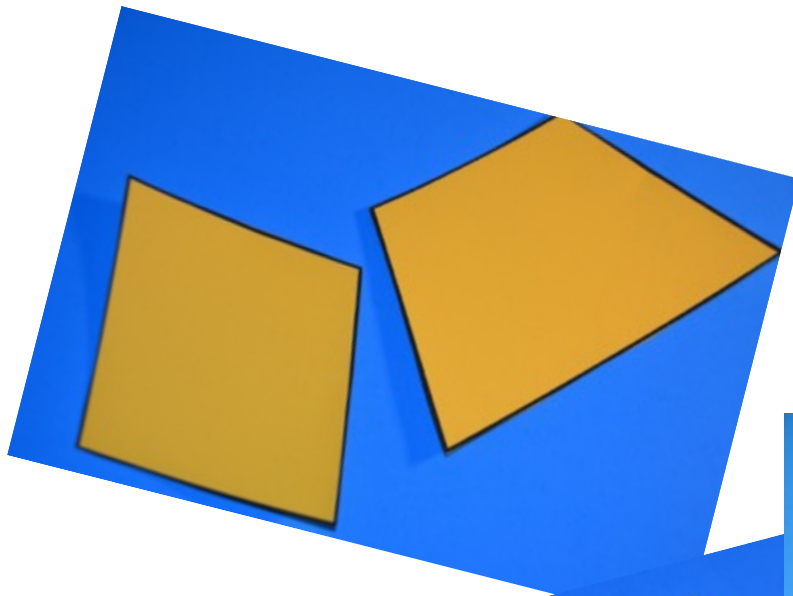
Activity: 2-D Shape Construction

Interactive Journal: Polygon Toolbox (glue under the sides and bottom only)
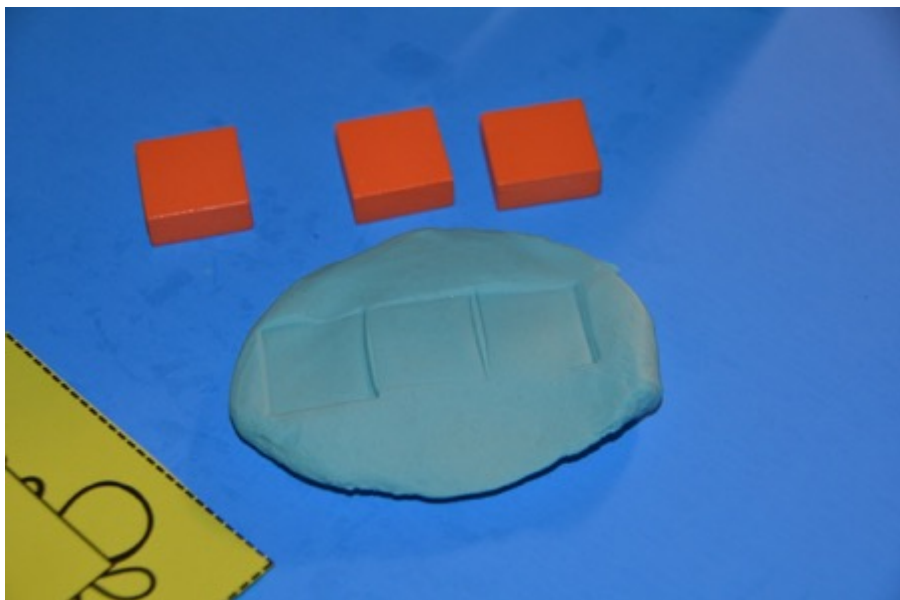
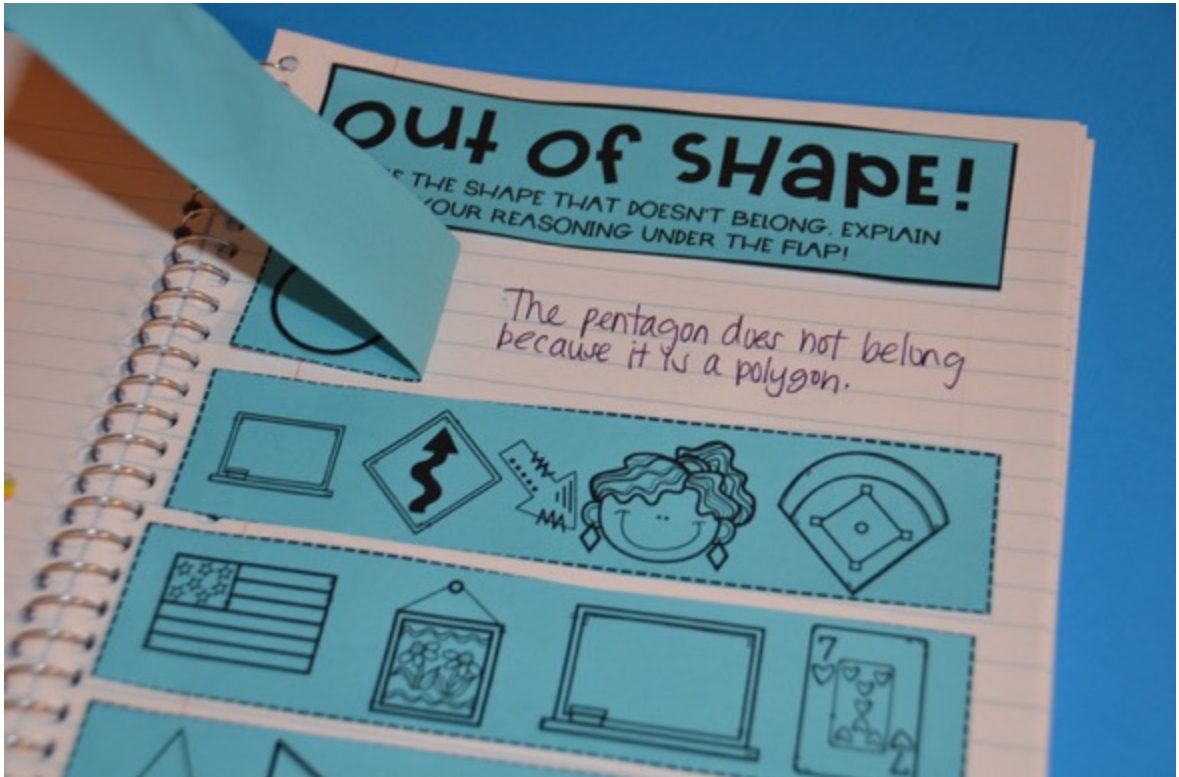# DAY THREE

Minilesson: Shape Puzzles

DAY THREE
Activity: Splat Composing Shapes

DAY THREE

Interactive Journal: Out of Shape!

DAY FOUR

Minilesson:
The Great Hexagon
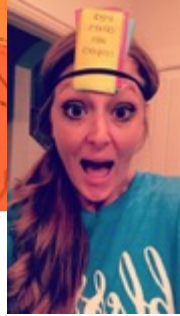Challenge

Lesson:
The Great Shape
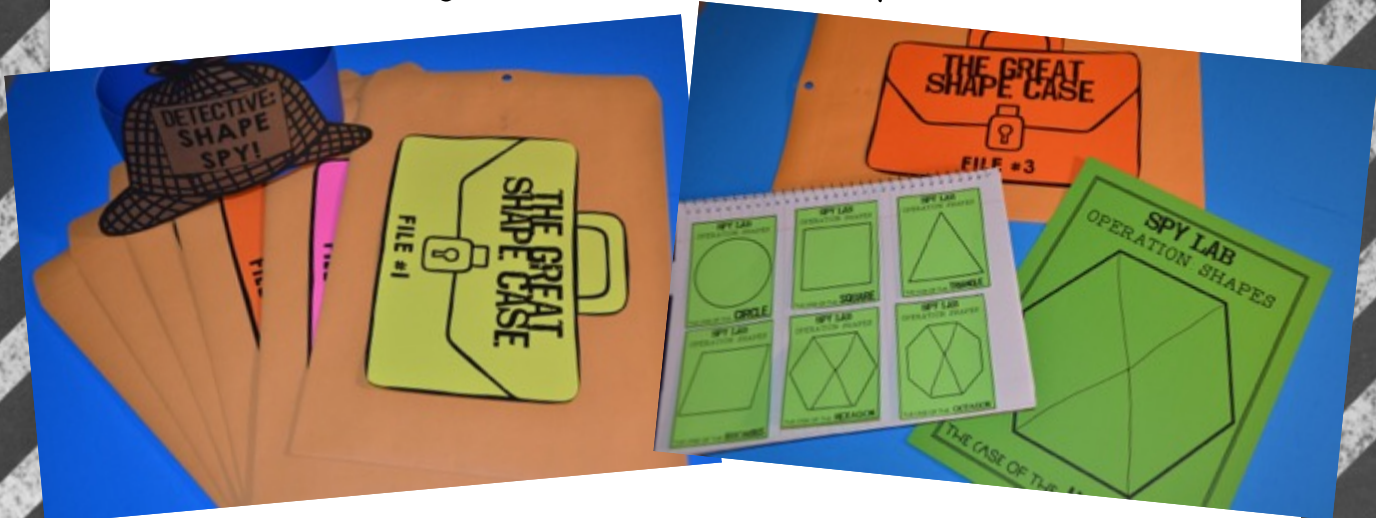Challenge

Interactive
Journal:
Shape Riddles

DAY FIVE

Minilesson:

Headbandz

Decomposing Shapes Puzzles

Activity: The Great Shape Case

WEEK TWO:

3d

shapes + partitioning 2d shapes

DAY ONE

Minilesson:
Chart and shape sort

Activity:
Shape Café...on the menu
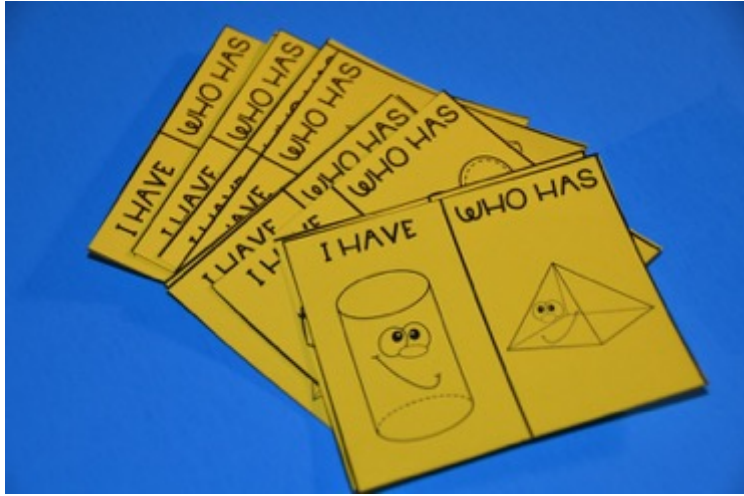(you can use actual food or the pictures provided)

Interactive Journal:
On the Menu

DAY ONE

To make the Shape Café-Booklet: Fold in half and glue cover on front.

Food List:
Note...students only need one of each item and do not need all items pictured here. I just went by the store in hunt for anything that resembled a shape.
Kit Kats
Tootsie Rolls
Cheese Crackers
Pepperonis
Marshmallows
Ritz
Club Crackers
Hersey Kiss
Candy Corn
Caramel Squares

DAY TWO

Minilesson:
I Have...Who Has?

Activity:
The 3-D Puzzler

Interactive
Journal: Shape
Puzzler. glue to
make pockets and
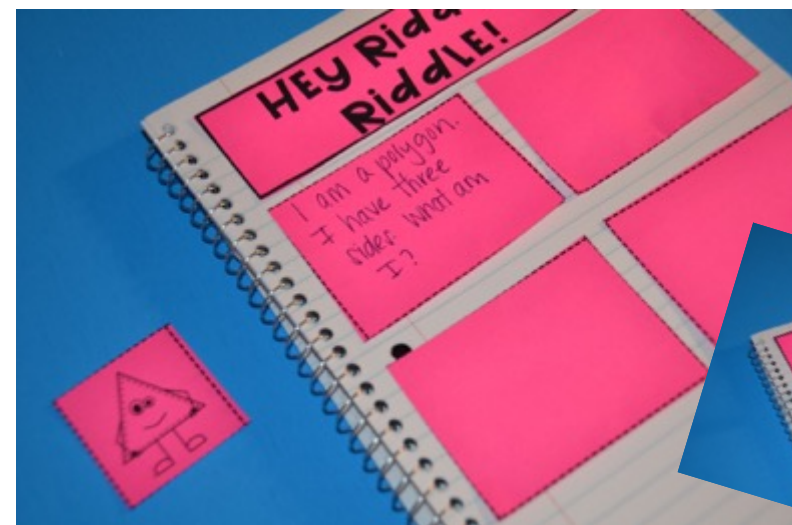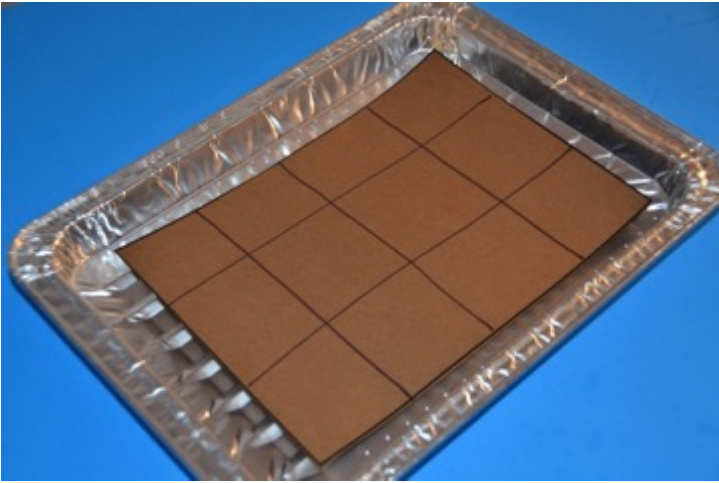sort the shapes

DAY THREE

Minilesson:
3 Questions
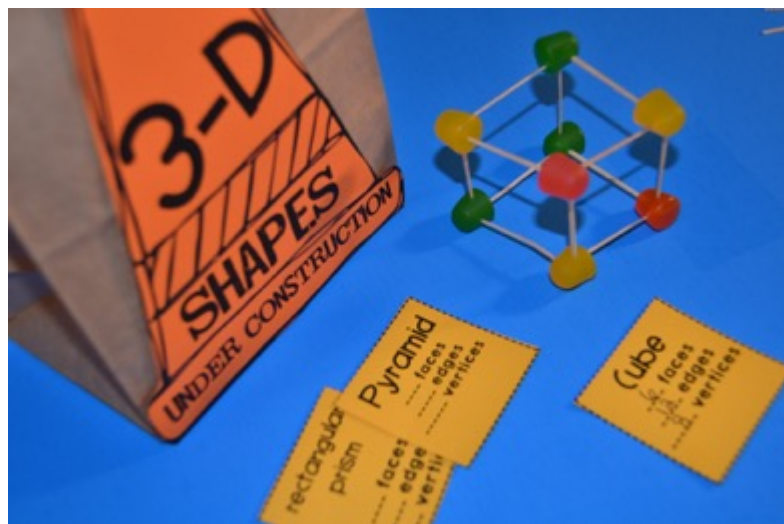
Activity:
3-D Shapes
Construction
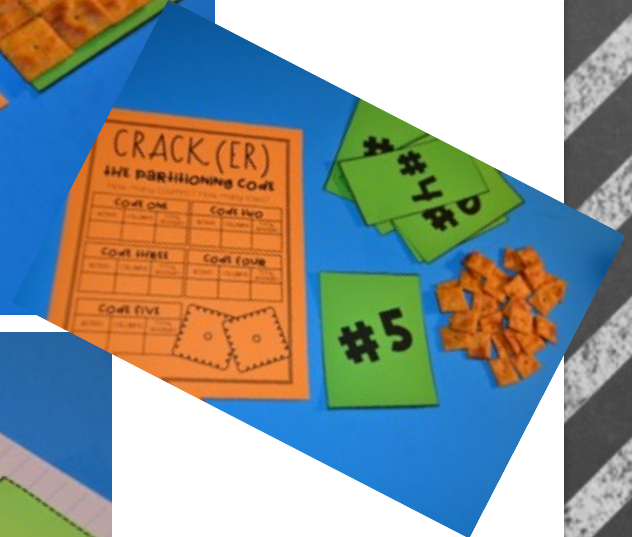Zone

Interactive
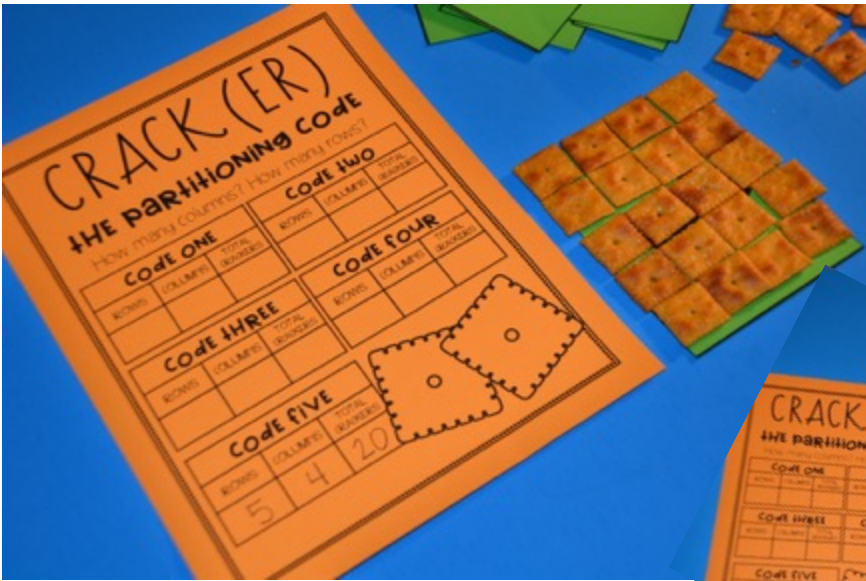Journal:
Hey Riddle Riddle

DAY FOUR

Minilesson:
Brownie Cut

Activity:
Crack(er) the
Partitioning Code

Brownie Cut!

DAY FIVE

Minilesson: Headbandz

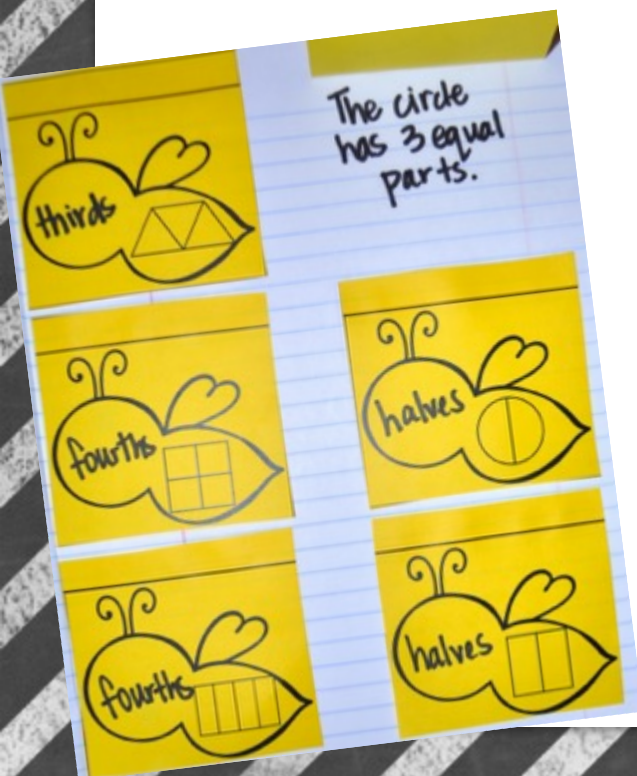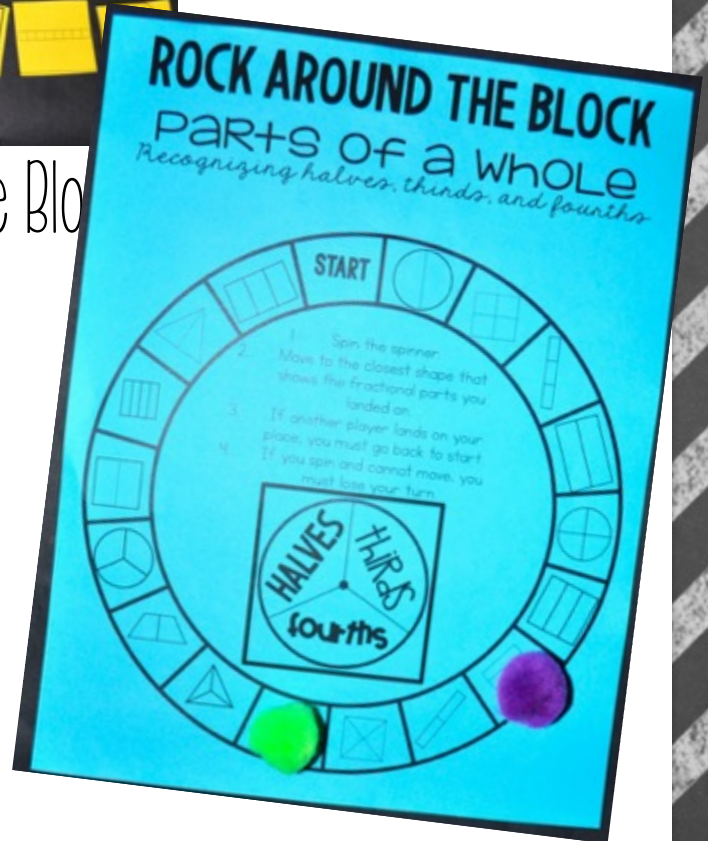

Activity: Shape Bingo

WEEK THREE: INTRO TO FRACTIONS

Day One

Minilesson: Introducing fractions

Activity: Rock Around the Block

Interactive Notebooks: Fraction Bees

DAY TWO

Minilesson: Pizza Fractions

Activity: Pizza Fractions and Playdough

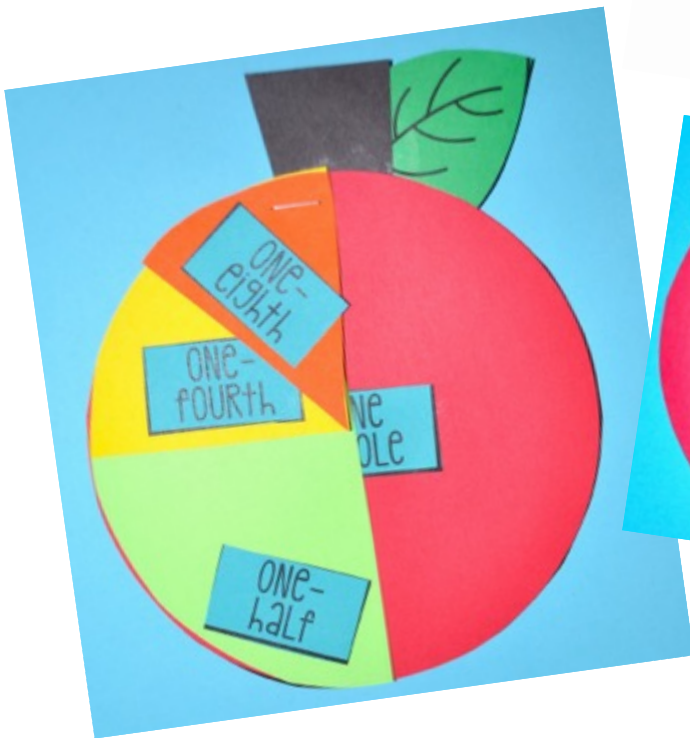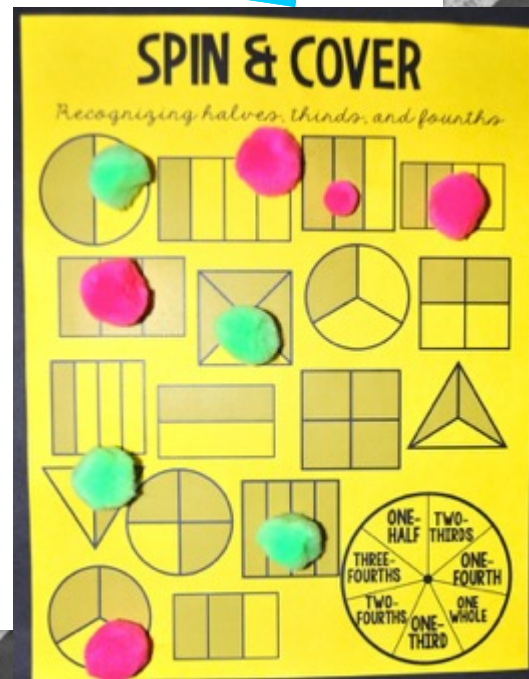Interactive Notebooks: Fraction Pocket Sort

DAY THREE

Minilesson: Cutting apart apples to demonstrate sharing equally

Activity: Apple Booklet

Interactive Notebooks: Spin and Cover-

DAY FOUR

Minilesson: Step it out

Activity: BINGO
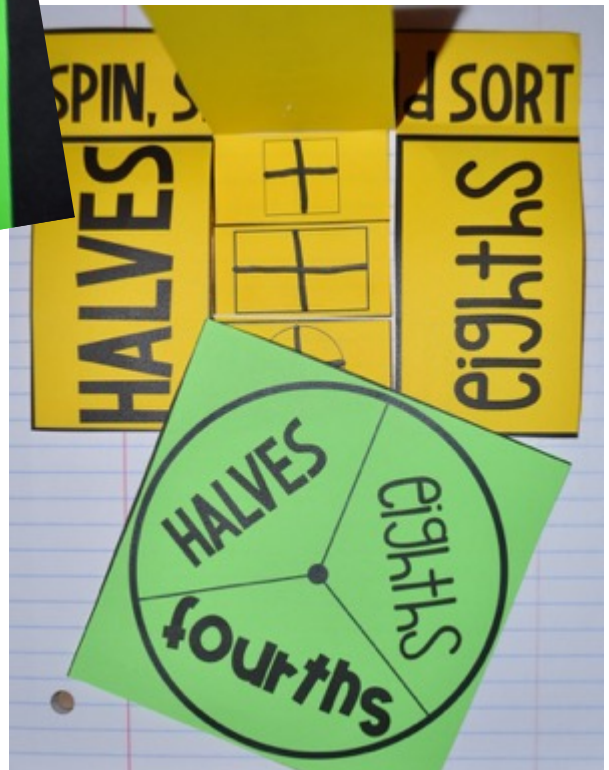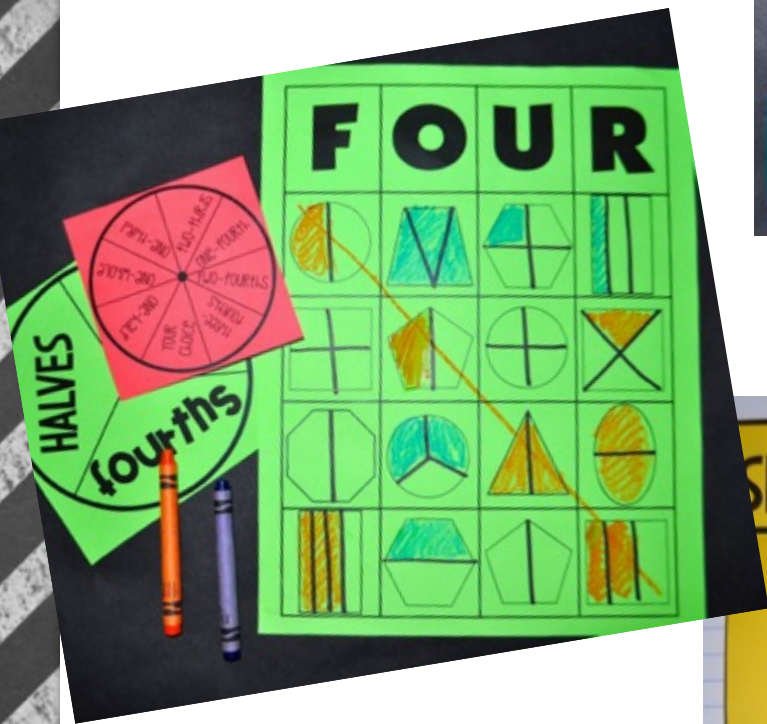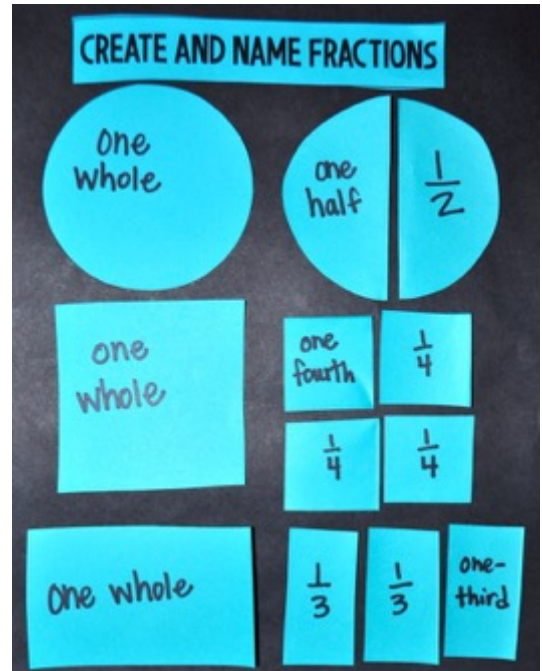

Interactive Notebooks: Fraction Bars

Day Five

Minilesson: Create and Name Fractions

Activity: FOUR

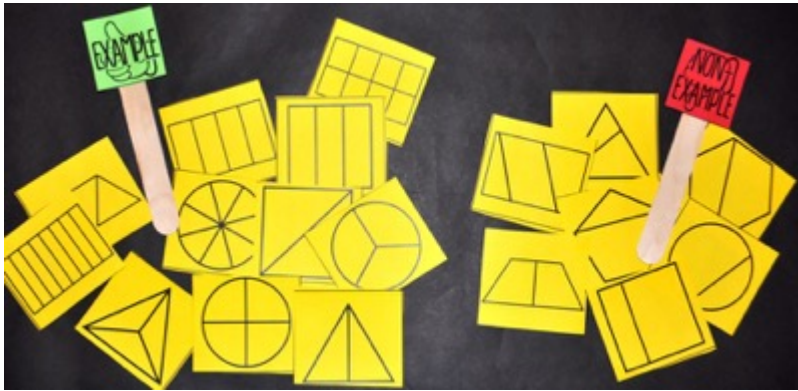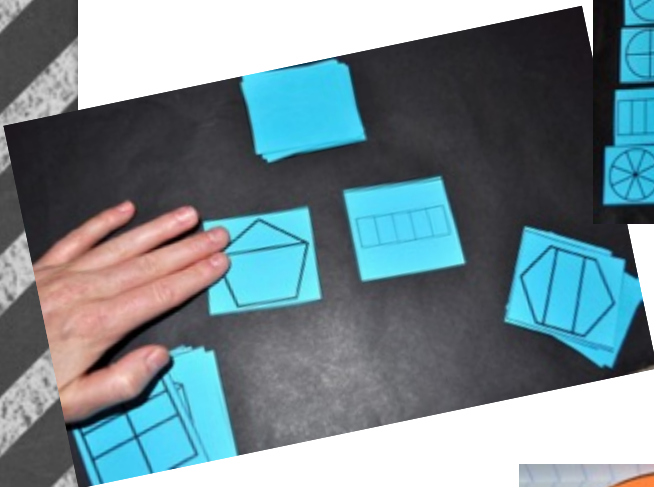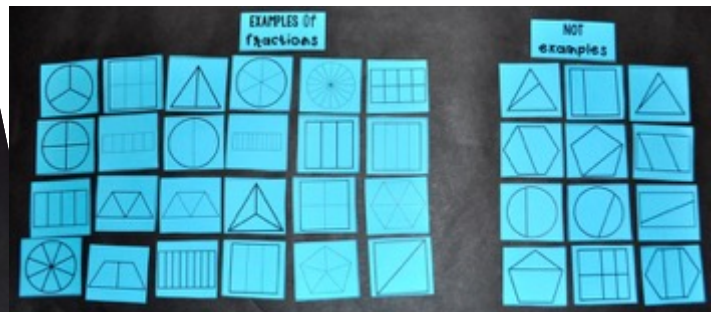Interactive Notebooks: Spin, Split, and Sort

WEEK FOUR:
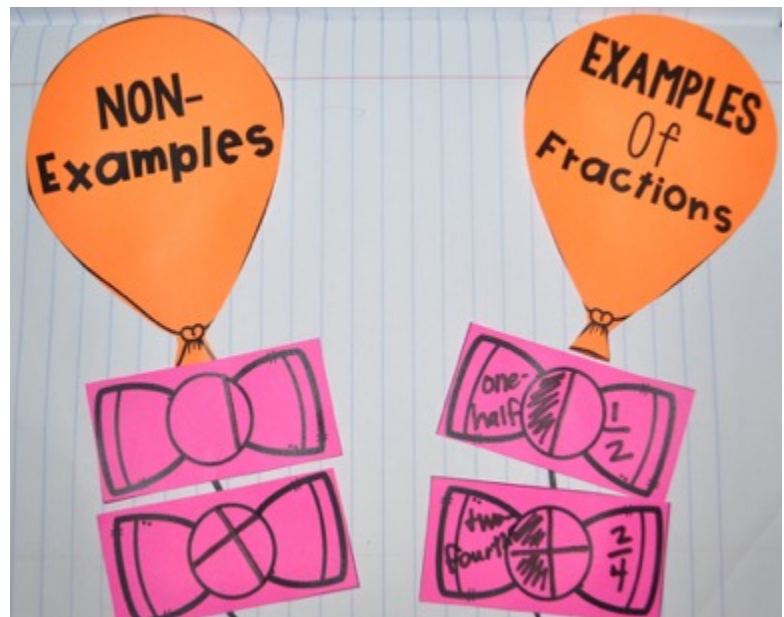
More On

fractions

DAY ONE

Minilesson: Identifying examples and non-examples of fractions

Activity: Students play "Smack It"

Interactive Notebooks: Blowing Away Fractions

Day Two

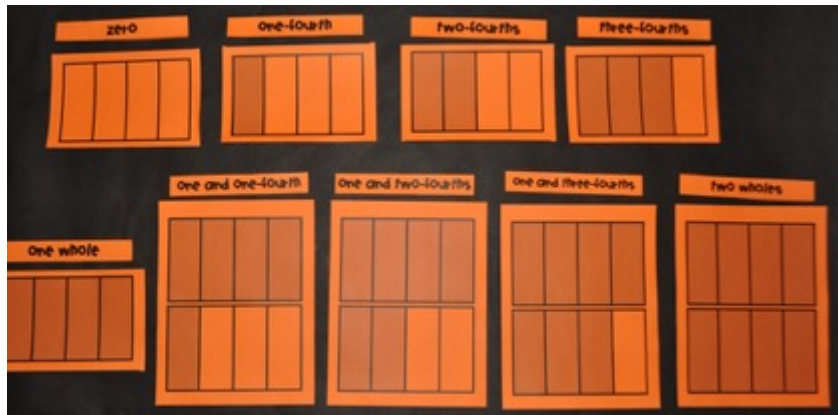Minilesson: Cookie Fractions

Activity: Frosted Fractions

Frosted Fractions

My cookie is partitioned into ___halves___ It has __2__ equal parts. Each equal part is called _one-half_ I could share my cookie with __1__ friends

WHICH HAS larger parts? one-third

WHICH HAS larger parts?

WHICH HAS larger parts?

WHICH HAS larger parts?
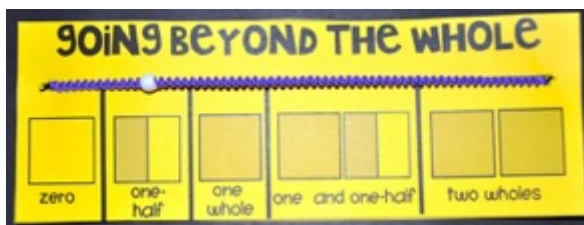
WHICH HAS larger parts?

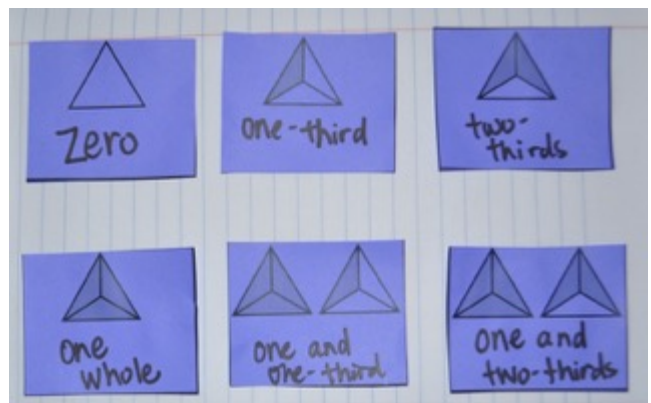Interactive Notebooks: Larger Parts?

DAY THREE

Minilesson: Going Beyond the Whole
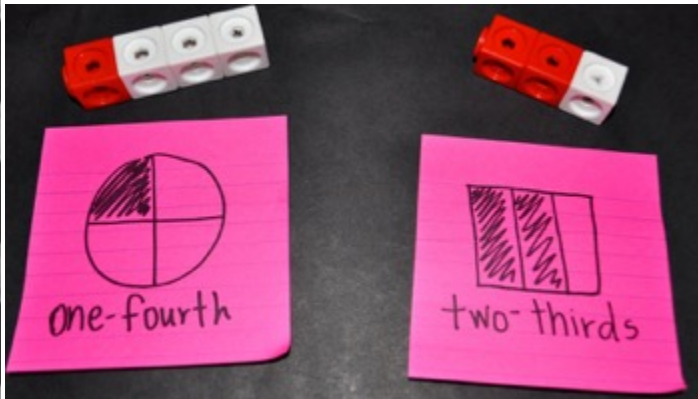

Activity: Fraction Rainbow

Interactive Notebooks: Students order either thirds or eighths in their math spirals
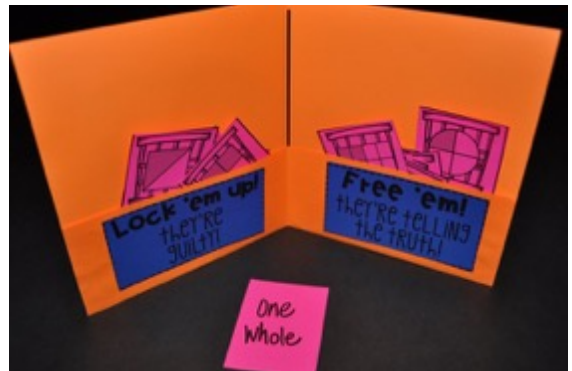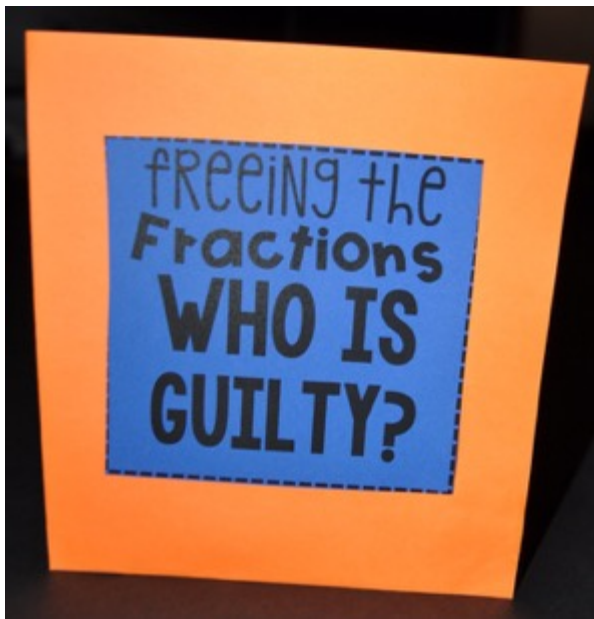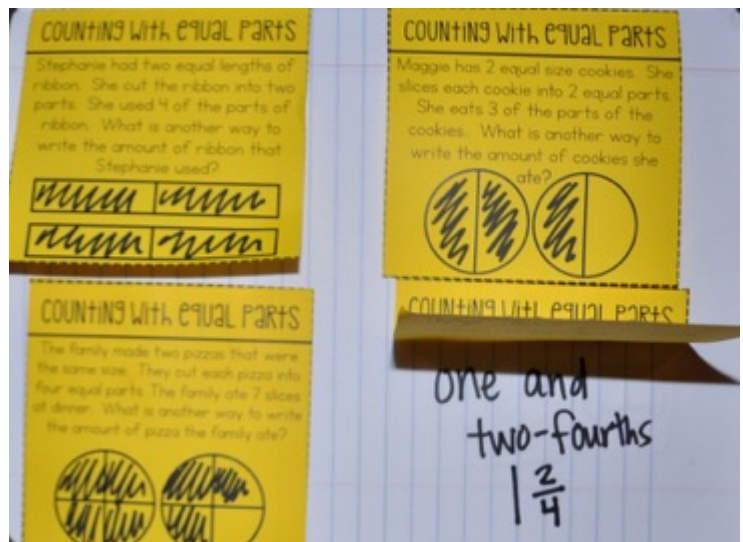
DAY FOUR

Minilesson: Fractions with unifix cubes

one-fourth   two-thirds

Activity: Fraction Pocket Book

freeing the Fractions WHO IS GUILTY?

Lock 'em up! they're guilty!   Free 'em! they're telling the truth!

one whole

Interactive Notebooks: Fraction Word Problem Flap Ups

COUNTING WITH EQUAL PARTS

Stephanie had two equal lengths of ribbon. She cut the ribbon into two parts. She used 4 of the parts of ribbon. What is another way to write the amount of ribbon that Stephanie used?

COUNTING WITH EQUAL PARTS

Maggie has 2 equal size cookies. She slices each cookie into 2 equal parts. She eats 3 of the parts of the cookies. What is another way to write the amount of cookies she ate?

COUNTING WITH EQUAL PARTS

The family made two pizzas that were the same size. They cut each pizza into four equal parts. The family ate 7 slices at dinner. What is another way to write the amount of pizza the family ate?

COUNTING WITH EQUAL PARTS

one and two-fourths

$1\frac{2}{4}$

DAY FIVE

Activity: Students name the fractions on the cards. Choose from the two options provided.

Assessment: There are two assessments to choose from.

MINILESSONS

-Ideas and materials on how to teach the concepts

-Easy to print and prep

FUN ACTIVITIES

Easy to Print Activities, Games, and Fun Stuff that help students stay engaged during your math block
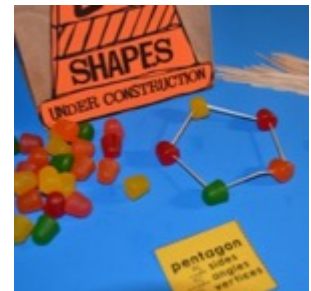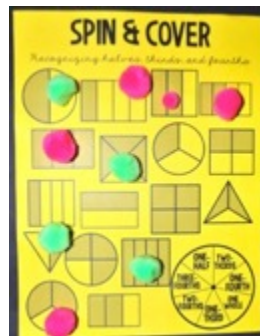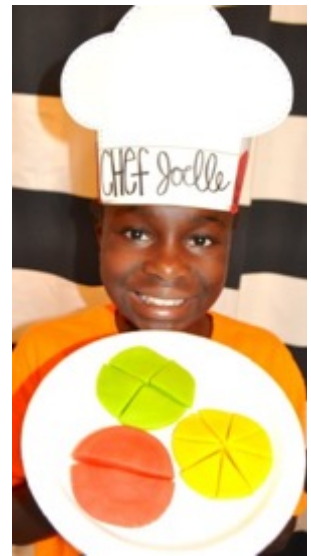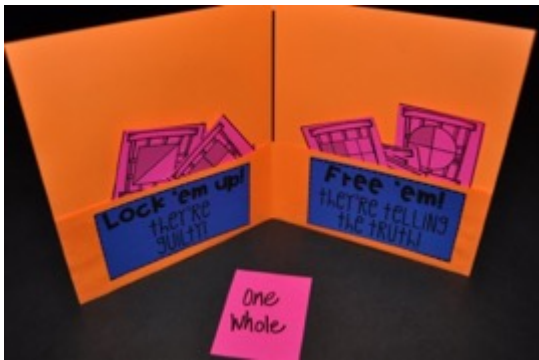
INTERACTIVE NOTEBOOKS

Activities that are easy to cut and glue into math spirals/interactive notebooks

VOCABULARY CARDS

Cards that you can display on a math word wall or bulletin board

SIDE
I have 4 sides.

EDGE
I have 12 edges.

FACE
I have 2 faces.

CO...

2D SHA...

3D SHAP...
shapes with height, depth, and width

VERTEX

ANGLE
I have 3 angles.

EQUAL PARTS
The rectangle has two equal parts.

EQUAL SHARES
Kelly, Jose, and I shared the cookie equally.

WHO...
one

...ONAL
There are four fractional parts. Each part is one-fourth.

$\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$

DECOMPOSE
Cut the trapezoid apart to form new shapes

POLYGON
a plane shape that is closed with straight sides

QUADRILATERAL

ATTRIBUTES
A PENTAGON HAS FIVE STRAIGHT SIDES AND FIVE VERTICES.

BEYOND THE WHOLE
one and one-half

I CAN STATEMENTS

I Can Statements can be displayed throughout the unit.

I CAN:

CLASSIFY AND SORT SOLIDS

COMPOSE 3D SHAPES

RECOGNIZE 2D SHAPES AND THEIR ATTRIBUTES
This is a hexagon with 6 sides and 6 vertices.

DECOMPOSE 2D SHAPES

CLASSIFY AND SORT 2D SHAPES

COMPOSE

PARTITION EQUAL PARTS

IDENTIFY EXAMPLES AND NON EXAMPLES OF FRACTIONAL PARTS

NAME THE EQUAL PARTS

$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$
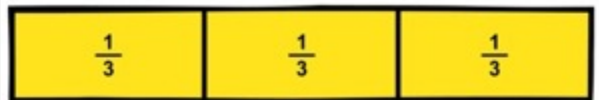
EXPLAIN FRACTIONAL PARTS
This rectangle is divided into four equal parts. One fourth of the rectangle is shaded orange.
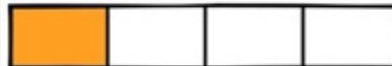
COUNT FRACTIONAL PARTS
One-half   One whole

RECOGNIZE HOW MANY PARTS IT TAKES TO EQUAL ONE WHOLE
It takes three parts to make one whole.
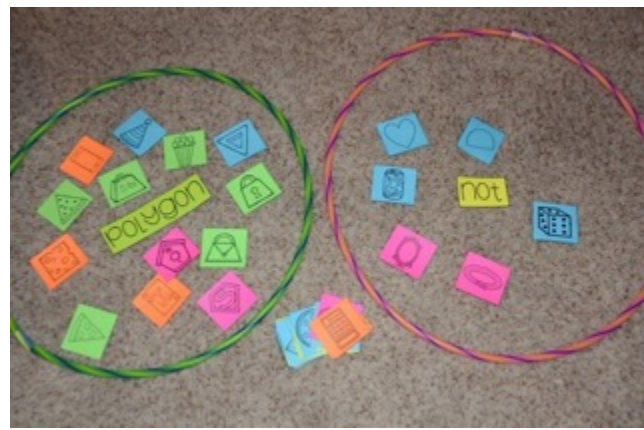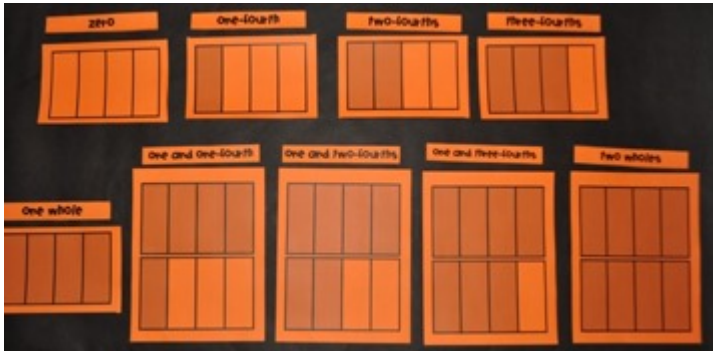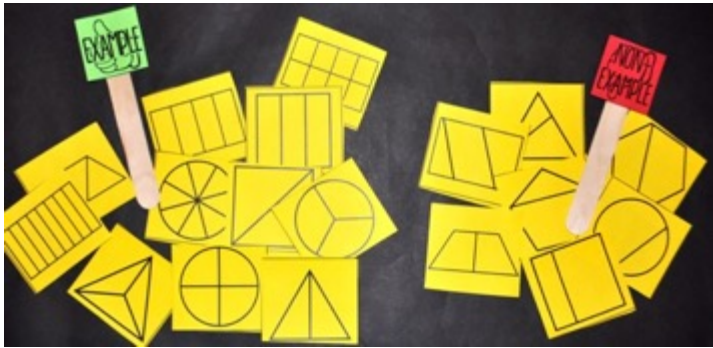
QUICK ASSESSMENTS

FRACTIONS
halves, thirds, and fourths

Name: _____

1. What is the name of the fraction shown?

a. one-half
b. two-halves
c. one-whole
d. one-fourth
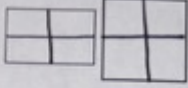
2. Complete the sentence:
The fewer the parts, the _____ the shares.

a. smaller
b. least
c. larg
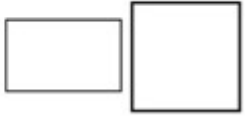
3. Comp
Th
_____

a. sm
b. larg
c. num

4. Partit
halves.

FRACTIONS
halves, fourths, and eighths

5. Partition the rectangle and square to show fourths.

6. Three pizzas are shaped like circles and are the same size. One pizza is divided into halves. One pizza is divided into fourths. One pizza is divided into thirds. Draw the three pizzas. Which pie has the smallest slices?

FRACTIONS
halves, fourths, and eighths

5. Partition the rectangle and square to show fourths.

6. Three pizzas are shaped like circles and are the same size. One pizza is divided into halves. One pizza is divided into fourths. One pizza is divided into the three pizza the smallest slic

halves
fourths
eighths

hat is the
ion shown

GEOMETRY
2-D Shapes Assessment

Name: _____

Name each shape. Put a "Q" beside each shape that is a quadrilateral.

| decagon | trapezoid |
| square | hexagon |

you make? Draw the shape
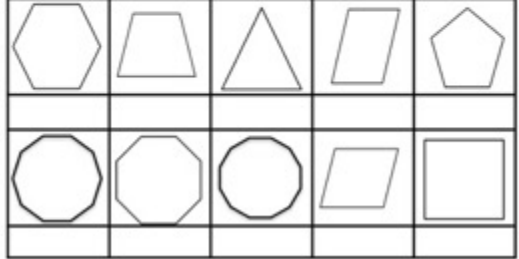
GEOMETRY
2-D and 3-D Shapes Assessment
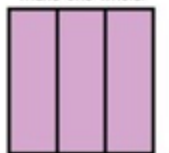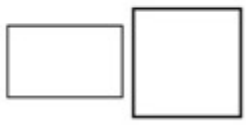
Name: _____

1. I am a polygon. I have four equal sides. I am not a rhombus. What shape am I?

a. rectangle
b. square
c. trapezoid
d. rhombus

2. Name the shapes:

5 sided shape: _____
6 sided shape: _____
7 sided shape: _____
8 sided shape: _____

3. How many vertices are shown on both shapes?

a. 12
b. 13
c. 10

4. Partition the rectangle into two rows and three columns.

5. If I have 3 cubes rectangular prisms, h faces do I have altog

a. 12
b. 30
c. 24

6. You have one rhom triangles. What shap make? Draw it here:

7. Decompose the
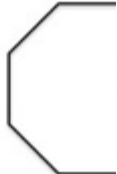
GEOMETRY
2-D and 3-D Shapes Assessment
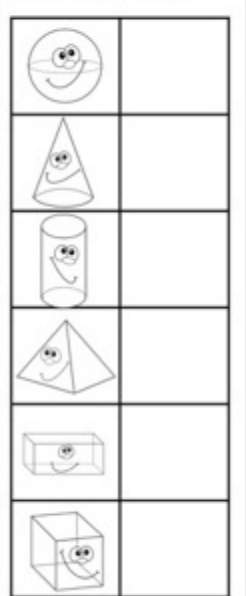
Name: _____

8. Name each solid shape:

9. Which shape does not belong? Explain your thinking:

_____

10. Jane places three shape blocks together to make a parallelogram. Draw which three blocks she may use.

11. Tim draws four shapes. Three of the shapes are three different four sided polygons and one is not a polygon at all. What four shapes could have have drawn?

2D Shapes

3-D Shapes

VERTEX

ANGLE

SiDE

CRACK (ER)

SHAPE

On the Menu 2-D Shapes

Menu 3-D Shapes

2-D MENU

3-D MENU

MENU

Fractions

ONE-HALF

ONE-THIRD

FOURTH
ONE-FOURTH
ONE-FOURTH

ONE-HALF

ONE-FIFTH
ONE-FIFTH
ONE-FIFTH
FIFTH

ONE-SIXTH
ONE-SIXTH

halves
thirds
fourths
fifths
sixths
eighths

SPIN & COVER
recognizing halves, thirds and fourths

ONE-HALF   TWO-THIRDS
THREE-FOURTHS   ONE-FOURTH
TWO-FOURTHS   ONE-THIRD

ONE-FOURTH
ONE-FOURTH

THIRDS
ES
FO

ROCK AROUND THE BLOCK
PARTS OF A WHOLE
Recognizing halves, thirds and fourths

START

HALVES THIRDS FOURTHS

FOUR
fourths

CHEF Joelle

zero   one-fourth   two-fourths   three-fourths

One & Amy
King Lemons
Hope

one and one-fourth   one and two-fourths   one and three-fourths   two wholes

one whole

face the fractions

Fraction RAINBOW

Lock 'em up! they're guilty!   Free 'em! they're telling the truth!

One Whole

One-fourth   two-fourths   three-fourths   one whole   one and one-fourth   one and one-half

EXAMPLE

Fractions for Second Grade

Frosted Fractions
My cookie is partitioned into _halves_. It has _2_ equal parts.
Each equal part is called _one-half_.
I could share my cookie with _1_.