

# MATH BUNDLE #1

## Project Based Learning

2nd Grade Print & Google Slides



# BUILD A ZOO

## Project Based Learning

### 2<sup>nd</sup> Grade Print & Google Slides

#### CHALLENGE #3: PRIMATE CLASSES

The primate classes are so popular that you decide to offer classes about other types of animals, too. Under each class name, you see the time it begins. Drag each class to the clock that shows the correct start time.



#### ANIMAL HABITATS

You have \$1,000 to decorate the animal exhibits. Below are the different features you can purchase. You can purchase more than one of each feature. Consider what you learned about habitats, how much space is within each exhibit, and the budget. Drag an animal icon to each like in their exhibit. On the following slide, you will make a list of features to purchase.



Watering hole  
\$120



Colorful plants



Sand  
\$50



Tree  
\$100



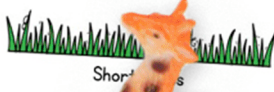
Climbing rocks  
\$80



Tall grass  
\$60



Tree  
\$50



Short

Drag me

#### CHALLENGE #3: PRIMATE CLASSES

You just built a new primate exhibit, and you want to offer classes to your visitors so they can learn about the monkeys, gorillas, and chimpanzees while visiting the zoo. The times each class begins are shown on the clocks below.



All About Apes



Primate Diets



Monkey Habitats

1. Are the times on the clocks shown in AM or PM? How do you know?

2. What time does All About Apes begin?

3. What time does Primate Diets begin?

4. What time does Monkey Habitats begin?

5. Each class is one hour long. What time does each class end?

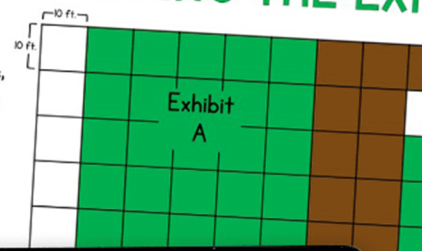
All About Apes

Primate Diets

Monkey Habitats

#### BUILDING THE EXHIBIT

Now that you've chosen your 4 animals, you must assign them to their exhibits. On this blueprint of the zoo, each square represents an area that is 10 feet long by 10 feet wide.





## ANIMAL HABITATS

ANIMAL EXHIBIT	FEATURE TYPE	COST	RUNNING TOTAL SPEND

Let's see if you have enough money to purchase all the features you choose for your animal exhibits.

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ate the  
al cost.

ember,  
n't go  
your  
budget of  
\$1,000!

You have \$1,000 to decorate the animal exhibits. Below are the different features you can purchase for the exhibits. You can purchase more than one of each feature. Consider what you learned about the animals' natural habitats, how much space is within each exhibit, and the budget. Drag an animal icon to each feature you would like in their exhibit. On the following slide, you will make a list of features to purchase and calculate the cost.



Watering hole  
\$120



Colorful plants  
\$40



Sand  
\$50



Bush  
\$60



Tree



Climbing rocks  
\$80



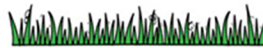
Tall grass  
\$60



Tree trunk  
\$70



Hanging vine  
\$30



Short grass



Drag me

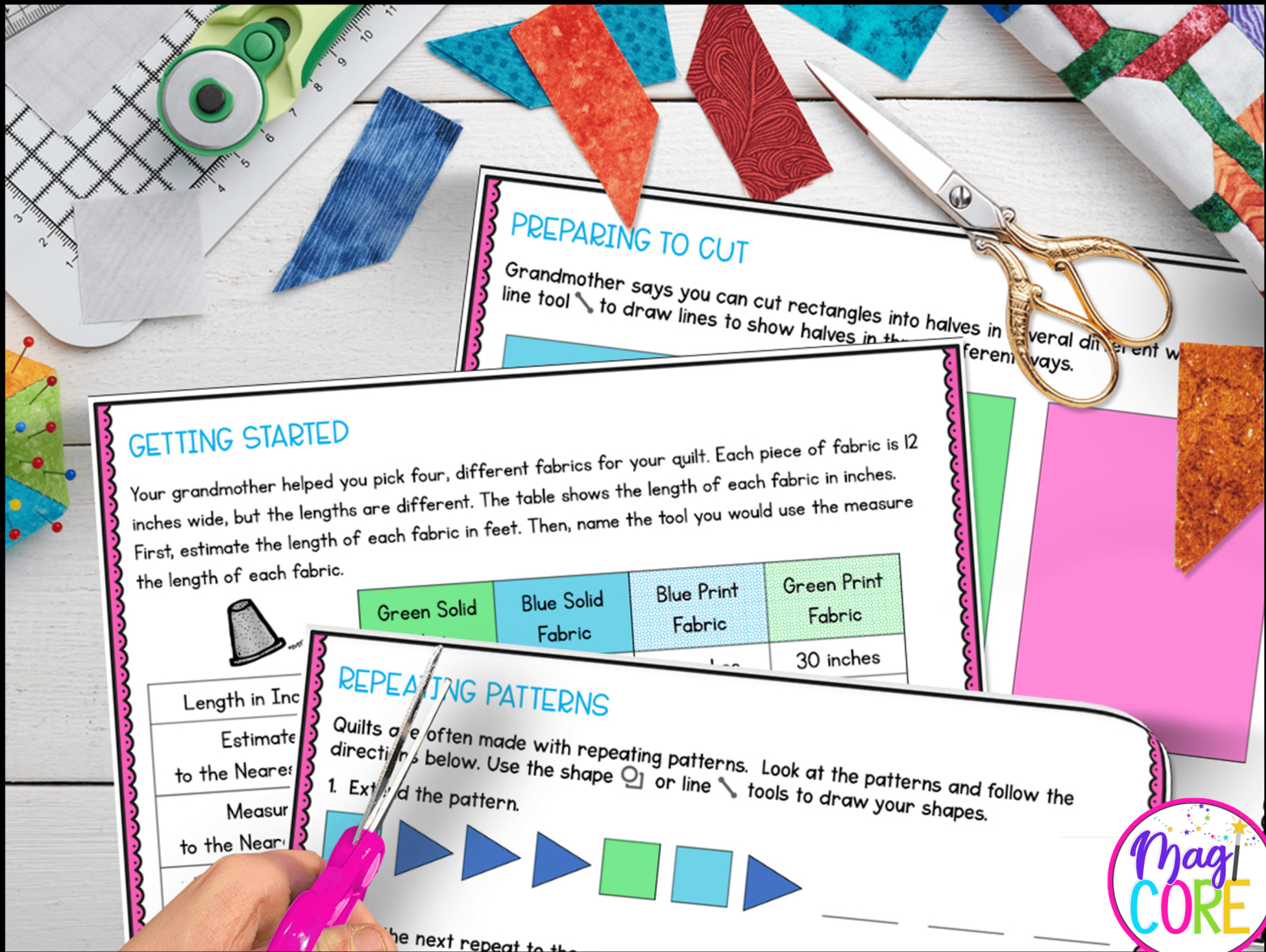




# Measure Twice, Cut Once

## Quilting Project Based Learning

2<sup>nd</sup> Grade Print & Google Slides





## MAKING TWO PATTERNS

Now that all your triangles are cut, it is time to arrange them. You must make two squares that are made with 8 triangles each. Below are a few ideas to help you get started.

Once you have your two patterns, you can use them to make a square. When you have your square, you can use it to make a quilt.

Have fun and be creative!

## DRAWING AN ARRAY

Let's find out how many 6-inch squares you will get from the solid green fabric.

1. How many green 6-inch squares will you cut from one piece of solid green fabric?

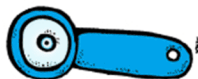
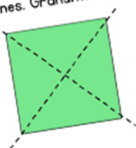
## MEASURING FABRIC

The table shows the measurements of the pieces of each fabric you need to make your quilt. Calculate the number of 6-inch squares you need for each fabric.

Green Solid Fabric	Blue Solid Fabric	Blue Print Fabric	Green Print Fabric
24 inches	24 inches	18 inches	30 inches
2	2	1	2

## CUTTING TRIANGLES

Now you are ready to make your own pattern using paper squares. You will cut four paper squares so that they measure exactly 6 inches by 6 inches. Then, you will draw lines, corner to corner that will be your cutting lines. Grandmother drew the diagram below to help you understand her directions.



Start by measuring and cutting four different color pieces of construction paper into 6-inch squares. Next, draw two cutting lines that go diagonally from corner to corner, just like Grandmother's diagram. Carefully, cut each square into four triangles.

1. Complete these sentences using words such as: halves, thirds, and quarters.

I will divide each square into \_\_\_\_\_

I will divide each square into \_\_\_\_\_

with my first cut.

with my last cut.

shortest to longest. Use the total number of inches.



Aligns to  
Standards



# CUPCAKES GALORE

## Math Project Based Learning

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**CUPCAKES GALORE**

**INGREDIENTS - 1**

1. Read the four recipe cards and pick your favorite.
2. Write the name of the recipe on the line.
3. Write the amounts of each ingredient listed.
4. Add the amounts and write the total needed.

My favorite recipe: \_\_\_\_\_

Ingredients	Amount in cupcake
flour	
baking powder	
baking soda	
sugar	
butter	
vanilla	

**YOUR CLASS - 2**

Baker: \_\_\_\_\_

Your teacher made a list of the cupcakes and students who are bringing them to the bake sale. Use the information in the list to answer the questions.

Cupcakes	Students baking for the bake sale
Berry Bonanza	Annika, Miguel, Rory, Sheldon
Vanilla Dream	Benson, Nico, Zac, Evan, Phoebe
Chocolate Walnut Delight	Charlie, Yazmin, Ty, Piper, Syndi, Petra
Cinnamon Sensation	Kenisha, Lori, Mandy, Leo, June

1. Add your name to the list to show the type of cupcake you will be baking. Add the total number of cupcakes that will be made for the type of cupcake you selected to bake. How many batches of cupcakes will be made by your class in all?
2. How many \_\_\_\_\_ made by your \_\_\_\_\_

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# Applicable to Real Life & Fun!

## YOUR CLASS - 2

Baker: \_\_\_\_\_

Your teacher made a list of the cupcakes and students who are bringing them to the bake sale. Use the information in the list to answer the questions.

### Cupcakes

*Berry Bonanza*

*Vanilla Dream*

*Chocolate Walnut Delight*

*Cinnamon Sensation*

### Students baking for the bake sale

*Annika, Miguel, Rory, Sheldon*

*Benson, Nico, Zac, Evan, Phoebe*

*Charlie, Yazmin, Ty, Piper, Syndi, Petra*

*Kenisha, Lori, Mandy, Leo, June*

1. Add your name to the list to show the type of cupcake you will be baking. Add the total number of cupcakes that will be made for the type of cupcake you selected to bake. How many batches of cupcakes will be made by your class in all?

2. How many batches of cupcakes will be made by your class in all?



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m to pack your  
cakes  
can  
ses.



Number of boxes  
I need

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