

SUPERMARKET SPREE

Project Based Learning

2nd Grade Print & Google Slides

DRIED GOODS

Your next stop is the section of the supermarket with dried goods- items that won't perish (like fruits and veggies do) and don't need to be kept cold. The table below shows the items you need in this section.

Item					
Cost	\$2		\$3	\$2	\$2

You have a coupon for \$1.50. How much do you need to pay now? Fill in the blank.

usually costs \$3.50. How much does it cost now?

but butter for \$6 or the store brand for \$4. How much does it cost now?

and a bag of flour, you get \$1 off of the price in the table with the sale prices.

the price in dollars and cents, it will in the table with the price.

CHALLENGE #2: PICKING TREATS

In the checkout line, you find an extra \$5 bill in your pocket that you had forgotten about! You decide to use this money to buy yourself a treat for a job well done. The table below shows the prices of some goodies in the checkout aisle.

Treat	Chips	Candy Bar	Gummy Bears	Jerky	Mints	Fruit Snacks
Price	\$1.45	\$1.30	\$2.05	95¢	\$1.05	\$1.55

1. If you bought gummy bears and a candy bar, how much would it cost? How much change would you receive?

Cost: \$3.35 receive \$1.65

2. What combination of treats could you purchase that would cost exactly \$5 all together?

3. Which treats do you choose to buy? You can buy as many or as few as you would like, but your total must not be more than \$5. How much do your treats cost?



BUDGET CHECK #4

Answer the following questions based on the table on the previous page.

1. Based on your estimate, explain.

2. Compare the estimated cost from the budget.

Mom's
estimated cost

Grandma's
estimated cost

3. Which person's shopping was more expensive?

SUPERMARKET SPREE

Your parents have given you the responsibility of going to the supermarket and purchasing all the food and necessary items your family will need for the week. It is your job to budget for all the items, compare costs of similar items, analyze sales prices, and make other decisions about your family's grocery purchase.

Here are your tasks:

- Read through the entire packet before beginning.
- Count money to determine your shopping budget.
- Estimate the cost of the items your family members want you to purchase.
- Help your sister calculate how much money she has in her piggy bank.
- Determine the price of items at the supermarket by solving problems and calculating coupons and sales.
- Solve one- and two-step word problems about item prices.
- Keep track of how much money you are spending to ensure you don't go over budget.
- Complete the challenge pages. (Optional)
- Complete the self-reflection and evaluation rubric.



Engaging story to get kids immersed in learning!
Activities are print – and – go.

BUDGET CHECK #1

It's important that you keep track of the budget. This is how you make sure you have enough money to buy all the items. In the table below, fill in your estimate for Mom's groceries from the previous page. Calculate how much money you estimate to have spent so far.

Person's Groceries	Estimated Cost	Estimated Total Cost
Mom		
Grandma		
Dad		
Julia		



FOR THE TEACHER

SUPERMARKET SPREE is a project-based learning task that involves using second grade math standards to plan a budget and plan and carry out a grocery shopping trip. It was created for students in second grade. The following standards are addressed:

- 2.OA.A.1 Use addition and subtraction within 100 to solve one- and two-step word problems.
- 2.MD.C.8 Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢ symbols appropriately.
- 2.NBT.A.2 Count within 1000; skip-count by 5s, 10s, and 100s.
- 2.NBT.B.5 Fluently add and subtract within 100.
- 2.NBT.B.6 Add up to four two-digit numbers using strategies based on place value and properties of operations.



DIRECTIONS:

1. Assign students to work alone or in small groups.
2. Preview the activity with your students.
3. Allow students class time to complete the activity. This can span several days.
4. Allow students an opportunity to complete extra challenge activities (Optional).
5. Allow students to complete the self-reflection and evaluation rubric.
6. Allow students an opportunity to share their completed projects.

Covers a range of 2nd-grade math standards including

SETTING THE BUDGET

Before you leave for the store, your mom gives you the money to buy the type and number of bills and coins, below. Calculate how much money you have. Write the amount under each bill and coin.



2 - \$20 bills



2 - \$10 bills



4 - \$5 bills



4 - \$

DAD'S COOKOUT

Your dad is having your Uncle Ricky over tomorrow for a cookout. He needs you to pick up some items for him to barbecue, but he doesn't want to spend more than \$25 on all the ingredients. Below are a list of some items Dad could use for his cookout and what you estimate they might cost. Circle the items you are going to get for Dad. Remember: you need enough food for Dad and Uncle Ricky to have for dinner, but you can't spend more than \$25.



1 chicken
\$8



2 ears of corn
\$3



Sausage links
\$6



Quart of
lemonade
\$2



1 pound shrimp
\$14



4 turkey legs
\$16

Item	My Estimate
1 chicken	\$ 8
2 ears of corn	\$ 3
	\$
	\$
	\$
	\$
TOTAL	\$

Complete the table with the items you will use for Dad and the estimated prices from above. You might not use all spaces in the table. Calculate the total estimated cost.

MOM'S GROCERY LIST

Different people in your family have given you lists of things they need from the store. Below is the list of items Mom wants. Estimate what you think the cost of each item may be to the nearest dollar. Then, find the total estimate.

Item	My Estimate
1 gallon of milk	\$
1 loaf of bread	\$
1 fish	\$
1 jar of peanut butter	\$
1 pound of cherries	\$
TOTAL	\$

Set your budget by practicing adding to one hundred.
Track your budget by estimating costs.

GRANDMA'S RECIPE

Your grandmother needs the ingredients to make a loaf of her special banana bread. She gave you the recipe card. You need to purchase all the necessary ingredients. Read the recipe card. How many ingredients you need to purchase.

Grandma's special banana bread	
Ingredients	Directions
3 ripe bananas, mashed	• Preheat oven to 325 degrees.
1 cup sugar	• Put all ingredients into a large bowl. Mix well.
1 egg	• Pour batter into greased loaf pan.
¼ cup melted butter	• Bake 1 hour.
1 ½ cups flour	
1 tsp. salt	

Now, complete the table with the items you will need to purchase for Grandma. Estimate the price of each item to the nearest dollar. Then, find the total estimate.

Item	My Estimate
Banana	\$ 3
egg	\$ 1
sugar	\$
	\$
	\$
	\$
TOTAL	\$

DAD'S COOKOUT

Your dad is having your Uncle Ricky over tomorrow for a cookout. He needs you to pick up some items for him to barbecue, but he doesn't want to spend more than \$25 on all the ingredients. Below are a list of some items Dad could use for his cookout and what you estimate they might cost. Circle the items you are going to get for Dad. Remember: you need enough food for Dad and Uncle Ricky to have for dinner, but you can't spend more than \$25.



2 steaks
\$18



1 chicken
\$8



2 ears of corn
\$3



Sausage links
\$6



Quart of lemonade
\$2



1 pound shrimp
\$14



4 turkey legs
\$16

Now, complete the table with the items you will purchase for Dad and the estimated prices from above. You might not use all spaces in the table. Calculate the total estimated cost.

Item	My Estimate
2 steaks	\$ 18
1 chicken	\$ 8
	\$
	\$
	\$
	\$
TOTAL	\$

BUDGET CHECK #3

In the table below, copy the data for your estimates for Mom's and Grandma's groceries from Budget Check #2. Fill in your estimate for Dad's cookout ingredients from the previous page. Calculate how much money you estimate you will have left after getting Mom's, Grandma's, and Dad's items.

Person's Groceries	Estimated Cost	Estimated Total Cost
Mom		
Grandma		
Dad		
Julia		



PRODUCE AISLE

You have arrived at the grocery store! Your first stop is the produce aisle. From this aisle, you need to buy one pound of cherries for Mom and a bunch of bananas for Grandma. Answer the questions below.

1. There are three different types of cherries to choose from. Fill in the missing prices below.



Rainier Cherries
Cost: \$3.89 per pound



Bing Cherries
Cost: 10¢ less per pound
than Rainier cherries. They
cost 3.79 per pound.



Morello Cherries
Cost: 2¢ more per pound
than Bing cherries. They
cost 4 per pound.

2. You call your mom to ask which type of cherries to buy. She tells you to buy one pound of Morello cherries. The cherries cost: \$4.
3. There is a sale on bananas today. Each banana costs 10¢. If you buy a bunch of 10 bananas, how much will it cost? Skip count by 10s to find the answer. Show your skip counts.

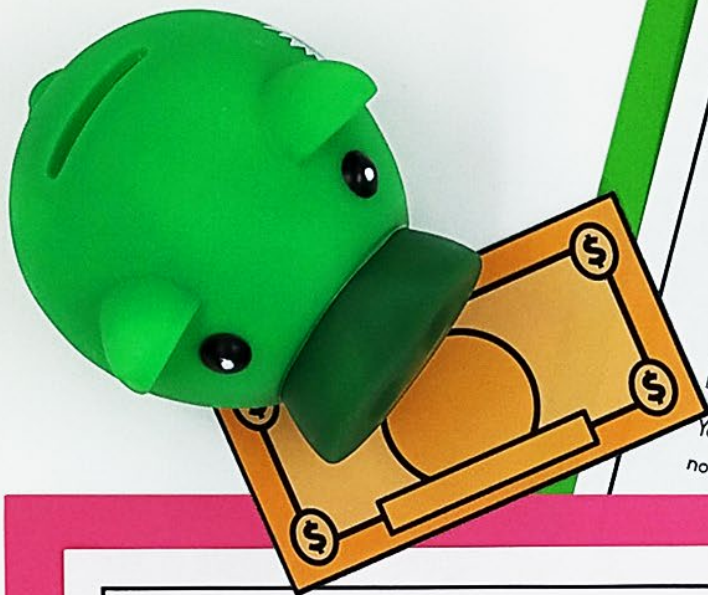
\$1.00

4. How much did you spend in total in the produce aisle?

\$5



Realistic Word Problems



DRIED GOODS

Your next stop is the section of the supermarket with dried goods- items that won't perish (like fruits and veggies do) and don't need to be kept cold. The table below shows the items you need in this section.

Item	Loaf of Bread	Jar of Peanut Butter	Bag of Sugar	Bag of Flour	Canister of Salt
Cost	\$2		\$3	\$2	\$2

You have a coupon for \$1.50 off. How much will you pay now? Fill in the blank.

usually costs \$3.50. How much does it cost now?

but butter for \$6 or the store brand for \$4.50.

and a bag of flour, you get \$1 off of the price in the table with the sale prices.

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CHALLENGE #2: PICKING TREATS

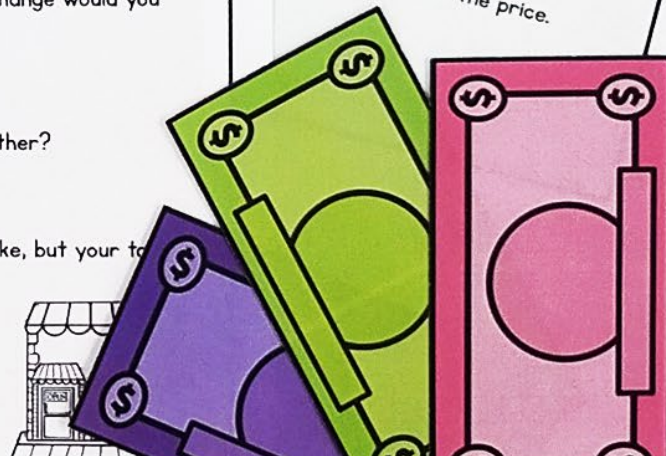
In the checkout line, you find an extra \$5 bill in your pocket that you had forgotten about! You decide to use this money to buy yourself a treat for a job well done. The table below shows the prices of some goodies in the checkout aisle.

Treat	Chips	Candy Bar	Gummy Bears	Jerky	Mints	Fruit Snacks
Price	\$1.45	\$1.30	\$2.05	95¢	\$1.05	\$1.55

- If you bought gummy bears and a candy bar, how much would it cost? How much change would you receive?

Cost: \$3.35 receive \$1.65

- What combination of treats could you purchase that would cost exactly \$5 all together?
- Which treats do you choose to buy? You can buy as many or as few as you would like, but your total must not be more than \$5. How much do your treats cost?
- How much change will you receive after paying for your treats with a \$5 bill?



Plan groceries by practicing adding money.
25 Pages of Themed Skills Math Practice

CHALLENGE #2: PICKING TREATS

In the checkout line, you find an extra \$5 bill in your pocket that you had forgotten about! You decide to use this money to buy yourself a treat for a job well done. The table below shows the prices of some goodies in the checkout aisle.

Treat	Price
Chips	\$1.45
Gummy Bears	\$0.55
Jerky	\$1.05
Mints	\$1.55
Fruit Snacks	\$1.55

1. If you bought gummy bears, how much would you receive?
Cost: \$3.35

2. What combination of coins and bills would you use to pay for the gummy bears?

3. Which treats do you think you could buy with the \$5 bill? Which must not be more than \$5?

4. How much change would you receive?

SELF-REFLECTION

Write a reflection of your experience with this project. How did you feel about the math problems and activities? Explain what you found easy to do and any difficulties you had while working on this project. Did you enjoy this activity? Why or why not?

RATE THIS PROJECT

Circle the statement you most agree with.

I am ready for something harder.

This was just right.

I found this very challenging.

DAD'S COOKOUT

Your dad is having your Uncle Ricky over tomorrow for a cookout. He needs you to pick up some items for him to barbecue, but he doesn't want to spend more than \$25 on all the ingredients. Below are a list of some items Dad could use for his cookout and what you estimate they might cost. Circle the items you are going to get for Dad. Remember: you need enough food for Dad and Uncle Ricky to have for dinner, but you can't spend more than \$25.



1 chicken \$8

2 ears of corn \$3

Sausage links \$6

Quart of lemonade \$2

1 pound shrimp \$14

4 turkey legs \$16

My Estimate

\$ 8

\$ 3

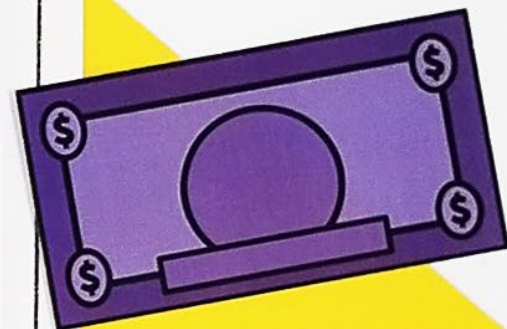
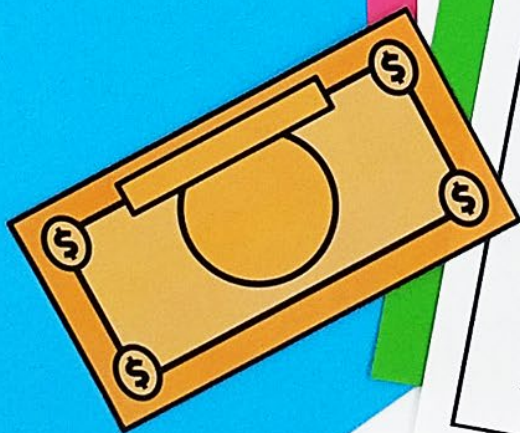
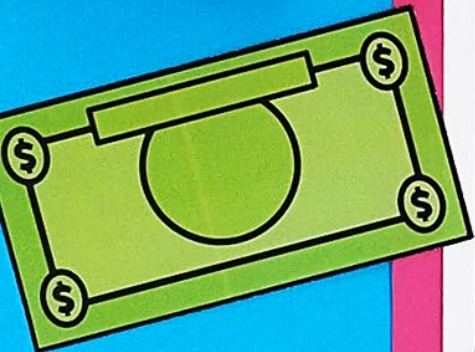
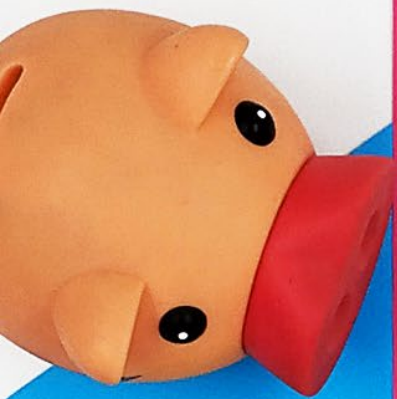
\$

\$

\$

\$

Three challenge activities: Making Change, adding and subtracting money, & arrays.



SELF-EVALUATION

Circle or shade one box per row on the rubric that expresses how you rate yourself on this Project Based Learning Activity.

+	✓	-
I am pretty good about my		I felt a lot of the math in this project was too hard to do alone.

SELF-REFLECTION

Write a reflection of your experience with this project. How did you feel about the math problems and activities? Explain what you found easy to do and any difficulties you had while working on this project. Did you enjoy this activity? Why or why not?

RATE THIS PROJECT
Circle the statement you most agree with.

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This was just right.

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Rubric and Reflection Self-Evaluation.

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resource to your own Google Drive.

FOR THE TEACHER

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SUPERMARKET SPREE

Your parents have given you the responsibility of going to the supermarket and purchasing all the food and necessary items your family will need for the week. It is your job to budget for all the items, compare costs of similar items, analyze sales prices, and make other decisions about your family's grocery purchase.

Here are your tasks:

- Read through the entire packet before beginning.
- Count money to determine your shopping budget.
- Estimate the cost of the items your family members want you to purchase.
- Help your sister calculate how much money she has in her piggy bank.
- Determine the price of items at the supermarket by solving problems and calculating coupons and sales.
- Solve one- and two-step word problems about item prices.
- Keep track of how much money you are spending to ensure you don't go over budget.
- Complete the challenge pages. (Optional)
- Complete the self-reflection and evaluation rubric.



SETTING THE BUDGET

Before you leave for the store, your mom gives you the money to buy the groceries. She shows you the type and number of bills and coins, below. Calculate how much money you have to spend at the supermarket. Write the amount under each bill and coin type.



2 - \$20 bills



2 - \$10 bills



4 - \$5 bills



4 - \$1 bills



2 quarters



3 dimes



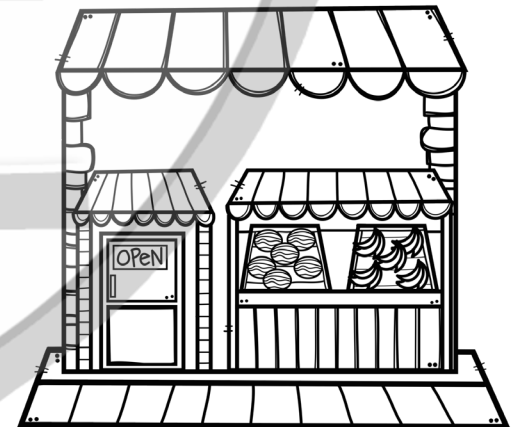
3 nickels



5 pennies

1. Find the total amount of money you have. Show your work below.

2. The total budget for my supermarket shopping trip is: _____



MOM'S GROCERY LIST

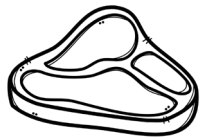
Different people in your family have given you lists of things they need from the store. Below is the list of items Mom wants. Estimate what you think the cost of each item may be to the nearest dollar. Then, find the total estimate.

Item	My Estimate
 1 gallon of milk	\$
 1 loaf of bread	\$
 1 fish	\$
 1 jar of peanut butter	\$
 1 pound of cherries	\$
TOTAL	\$



DAD'S COOKOUT

Your dad is having your Uncle Ricky over tomorrow for a cookout. He needs you to pick up some items for him to barbecue, but he doesn't want to spend more than \$25 on all the ingredients. Below are a list of some items Dad could use for his cookout and what you estimate they might cost. Circle the items you are going to get for Dad. Remember: you need enough food for Dad and Uncle Ricky to have for dinner, but you can't spend more than \$25.



2 steaks
\$18



1 chicken
\$8



2 ears of corn
\$3



Sausage links
\$6



Quart of
lemonade
\$2



1 pound shrimp
\$14



4 turkey legs
\$16

Now, complete the table with the items you will purchase for Dad and the estimated prices from above. You might not use all spaces in the table.

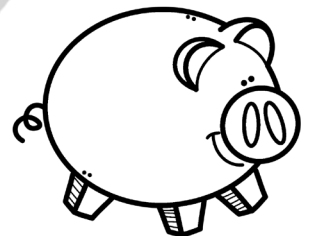
Calculate the total estimated cost.

Item	My Estimate
	\$
	\$
	\$
	\$
	\$
TOTAL	\$

JULIA'S PIGGY BANK

Your sister Julia has been doing odd jobs for the neighbors after school, and she has been saving up the money she has earned in her piggy bank. Answer the questions below.

1. Julia has walked your neighbor's dog every day for the past 3 days. Each day, she is paid \$5. Skip count by 5s to see how much Julia has earned dog walking. Show your skip counts.
2. Julia earned \$9 by weeding Mrs. Morrison's garden. She spent \$6 of what she earned on a new book, but she saved the rest. How much money does Julie have from weeding?
3. Your parents give Julia a quarter each day she makes her bed. She has made her bed 8 times in the last two weeks. How much money does Julia have from making her bed?
4. How much money does Julia have in total?
5. Julia gives you a shopping list that she estimates will cost \$18. How much money will she have left over after?



BUDGET CHECK #4

Julia's money was already included in the bills and coins your mom gave you. In the table below, copy the data for your estimates for Mom's, Grandma's, and Dad's groceries from Budget Check #3. Julia's estimate for her items is filled in for you. Calculate how much money you estimate you will have left after getting everyone's items.

Person's Groceries	Estimated Cost	Estimated Total Cost
Mom		
Grandma		
Dad		
Julia	\$18	

Final Amount Remaining

\$85	-		=	
Starting Budget		Estimated Total Cost		Money Remaining



PRODUCE AISLE

You have arrived at the grocery store! Your first stop is the produce aisle. From this aisle, you need to buy one pound of cherries for Mom and a bunch of bananas for Grandma. Answer the questions below.

1. There are three different types of cherries to choose from. Fill in the missing prices below.



Rainier Cherries

Cost: \$3.89 per pound



Bing Cherries

Cost: 10¢ less per pound
than Rainier cherries. They
cost _____ per pound.



Morello Cherries

Cost: 21¢ more per pound
than Bing cherries. They
cost _____ per pound.

2. You call your mom to ask which type of cherries to buy. She tells you to buy one pound of Morello cherries. The cherries cost: _____.
3. There is a sale on bananas today. Each banana costs 10¢. If you buy a bunch of 10 bananas, how much will it cost? Skip count by 10s to find the answer. Show your skip counts.
4. How much did you spend in total in the produce aisle?



REFRIGERATED GOODS

You take a turn down the refrigerated aisle. First, you stop at the seafood counter to buy a fish for your mom. There are different types of fish with different prices, as shown below.



2 pound Trout
\$8 per pound



3 pound Red Snapper
\$7 per pound



1 pound Salmon
\$14.50 per pound

1. Using the price per pound and the weight of each fish, determine the total price of each and write the prices in the spaces.
2. Your mom told you not to buy the most expensive fish or the least expensive fish when looking at the total price. Which fish do you buy?
3. Next, you stop at the dairy refrigerator. Your mom told you to buy the type of milk that costs \$3 per gallon. Determine the prices of the milks in the table below. Which milk do you choose?

Type of Milk	Skim	1%	2%	Whole
Price per Gallon (coins)	6 quarters, 2 dimes, 7 nickels, 9 pennies	7 quarters, 3 dimes, 5 nickels, 4 pennies	5 quarters, 7 dimes, 4 nickels, 10 pennies	8 quarters, 6 dimes, 7 nickels, 5 pennies
Price per Gallon (dollars)				

CHALLENGE #1: MAKING CHANGE

As you're waiting to pay for your groceries, the customer in front of you is paying for their items. Answer the questions.

1. The other customer's total is \$35.68. Explain which dollars and bills you could use to pay that amount in exact change.
2. The customer gives the cashier two \$20 bills. How much change does the cashier owe the customer?
3. Give two different combinations of bills and coins that the cashier could give the customer in change.
4. As the customer is leaving, he puts some change in a donation jar. When you look in the donation jar, you see the following number of each type of coin. Calculate how much money is in the donation jar.

Type of Coin	 Quarter	 Dime	 Nickel	 Penny
Number in Jar	12	15	18	57

SELF-REFLECTION

Write a reflection of your experience with this project. How did you feel about the math problems and activities? Explain what you found easy to do and any difficulties you had while working on this project. Did you enjoy this activity? Why or why not?

RATE THIS PROJECT

Circle the statement you most agree with.

I am ready for something harder.

This was just right.

I found this very challenging.

SELF-EVALUATION

Circle or shade one box per row on the rubric that expresses how you rate yourself on this Project Based Learning Activity.

+	✓	-
I felt very confident about the math in this project.	I felt pretty good about my ability to complete the math in this project.	I felt a lot of the math in this project was too hard for me to do alone.
I understood all of the math and did not need help to complete the problems.	I understood most of the math but needed a little help to solve some of the problems.	I understood some of the math but needed help to complete most of the problems.
I easily used many strategies to solve the math problems efficiently.	I needed some help to use the best strategies for solving the math problems.	I had trouble understanding the best way to solve many of the math problems.
I feel I am ready for a harder math project.	I feel I would like to spend more time practicing similar math problems.	I feel I need assistance to work on similar math problems

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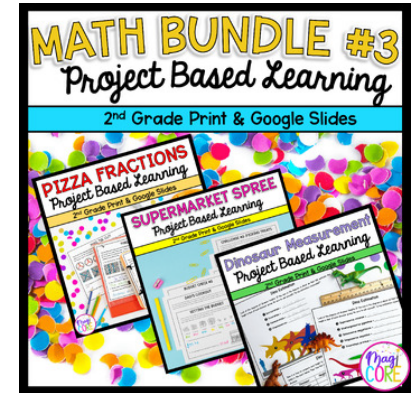
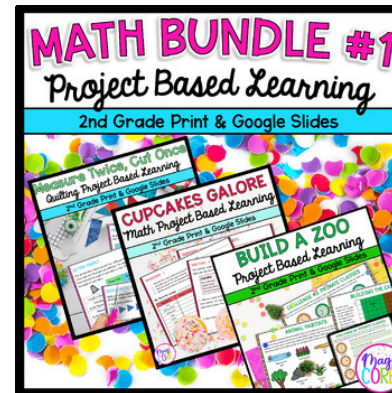
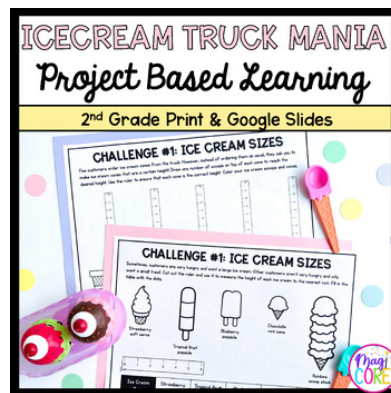


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