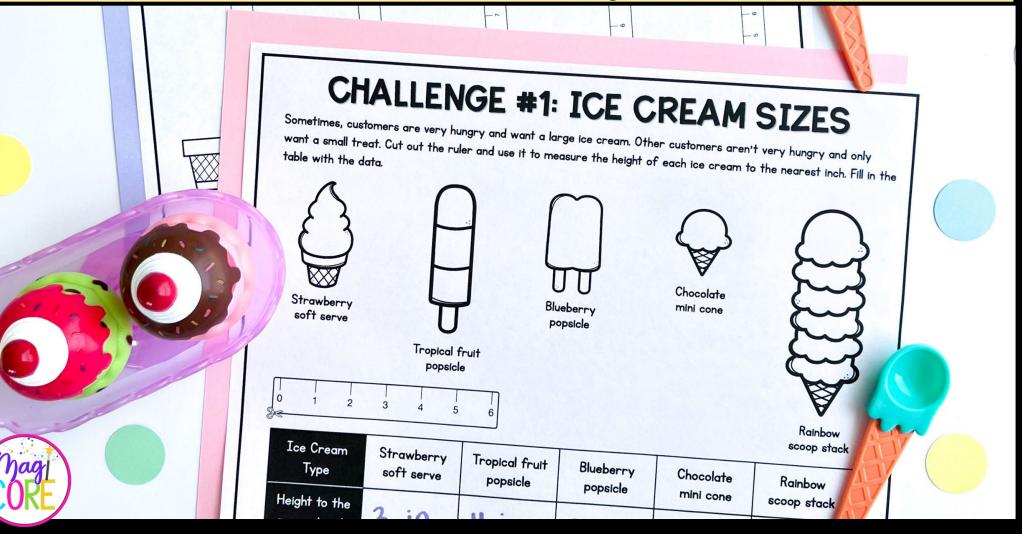
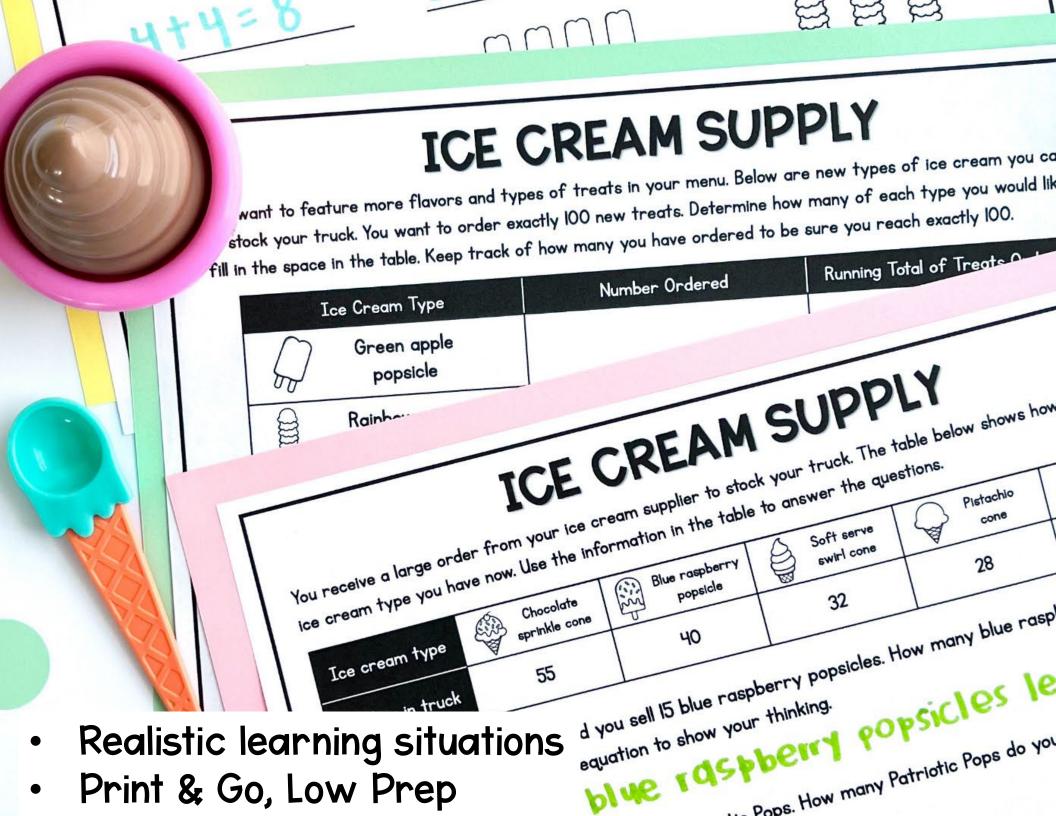
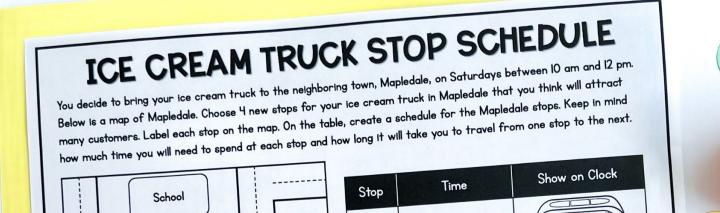
ICECREAM TRUCK MANIA Project Based Learning

2nd Grade Print & Google Slides







#

ICE CREAM TRUCK STOP SCHEDULE

The clocks below show at what time the truck makes stops on different streets each afternoon. Use the clocks to answer the questions.



Cafe

Store

Community

Pool









Fieldstone Lane

Poplar Drive

James Avenue

Oak Circle

- I. Do the clocks show time in AM or PM? How do you know? PM because it is the afternoon
- 2. At what time does the ice cream truck stop on Poplar Drive?
- 3. Due to traffic, the ice cream truck arrives ten minutes late to Fieldstone Lane. What time does the truck arrive? 3:15 PM

Meaningful practice of second grade math skills.

Promotes critical thinking and problem solving.

LEADER #1: ICE CREAM SIZES The cream cones from the truck. However, instead of ordering them as usual, they ask you to the that are a certain height! Draw any number of scoops on top of each cone to reach the the ruler to ensure that each cone is the correct height. Color your ice cream scoops and cones. $ \begin{bmatrix} 2 \\ -2 \end{bmatrix} $	
Image: Sometimes, customers are very hungry and want a large ice cream. Other customers aren't want a small treat. Cut out the ruler and use it to measure the height of each ice cream to the table with the data.	SIZES very hungry and only the nearest inch. Fill in the
$ \begin{array}{c c} \hline \\ \hline $	A set more that the the
$ \begin{array}{c} \hline \\ \hline $	SIZES very hungry and the nearest inch

Challenge activities push students who are ready for a challenge.

CHALLENGE #3: TOPPINGS GALORE

You want to offer some new ice cream toppings on your ice cream truck. You ask your toppings supplier which toppings are available. The table below shows your purchase price and selling price for each topping.

Topping	Price to Purchase from Supplier	Price to Sell to Customers	Profit (How much you earn from every topping sold)
Marshmallows	IO¢	20¢	
0			

CHALLENGE #3: TOPPINGS GALOR.

The menu board below shows the base price of each ice cream, plus how much extra each topping costs. Use the prices on the menu to answer the questions.

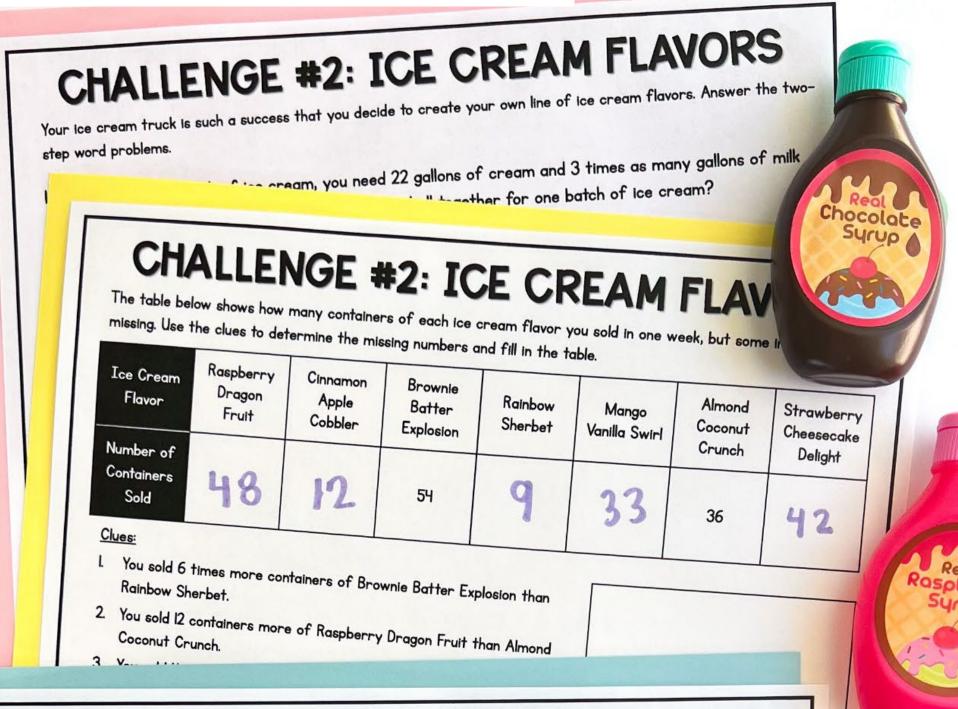
ſ	MENU
	Ice cream\$I per scoop
	In a cup No charge
	In a cone 80¢
	Cherry 50¢ each
	Cookie bits75¢
	Sprinkles 60¢
	Fresh fruit\$1

- I. Yusef orders two scoops of ice cream in a cone. He asks for hot fudge, whipped cream, and sprinkles. He pays for it with a \$10 bill. How much change does Yusef get back?
- 2. Daniela wants three scoops of ice cream in a cup with fresh fruit, cookie bits, and a cherry. She has a coupon for one free topping. To which of her lowest price? How much toppings should she apply the coupon to ge will her ice cream cost after the coupon?

Fresh fruit \$4.25

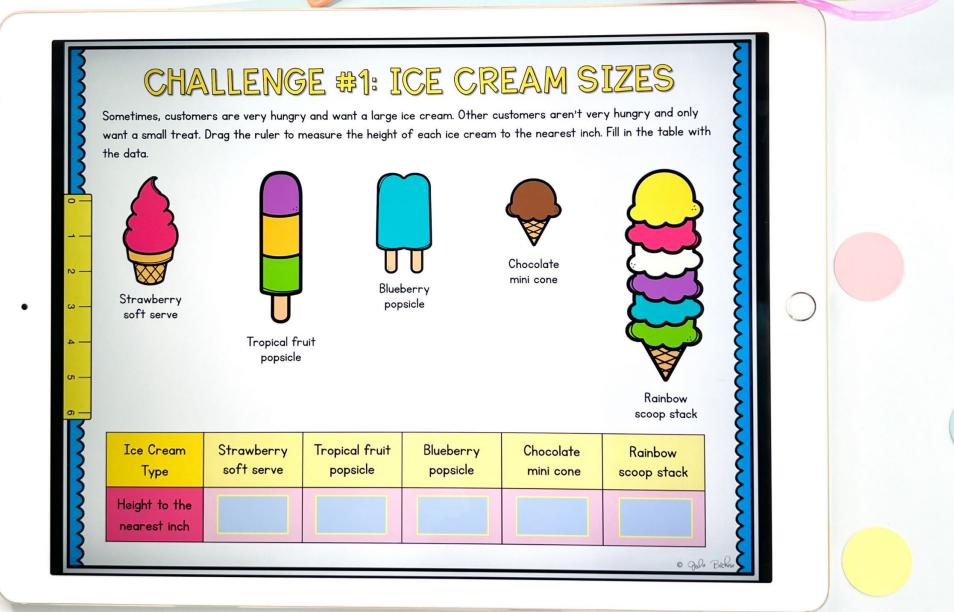
Paolo has \$5 He knows he wants two scool ice cream in one. Name

Makes differentiation a breeze!



CHALLENGE #3: TOPPINGS GALORE

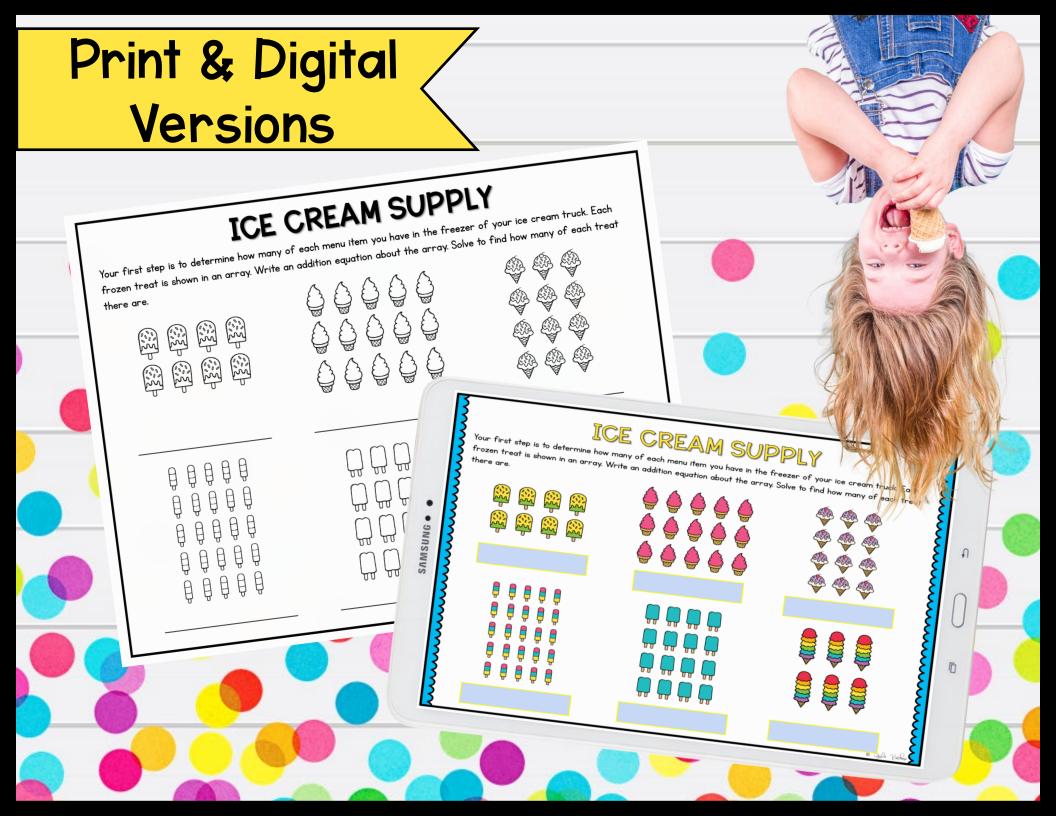
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Standards Addressed:



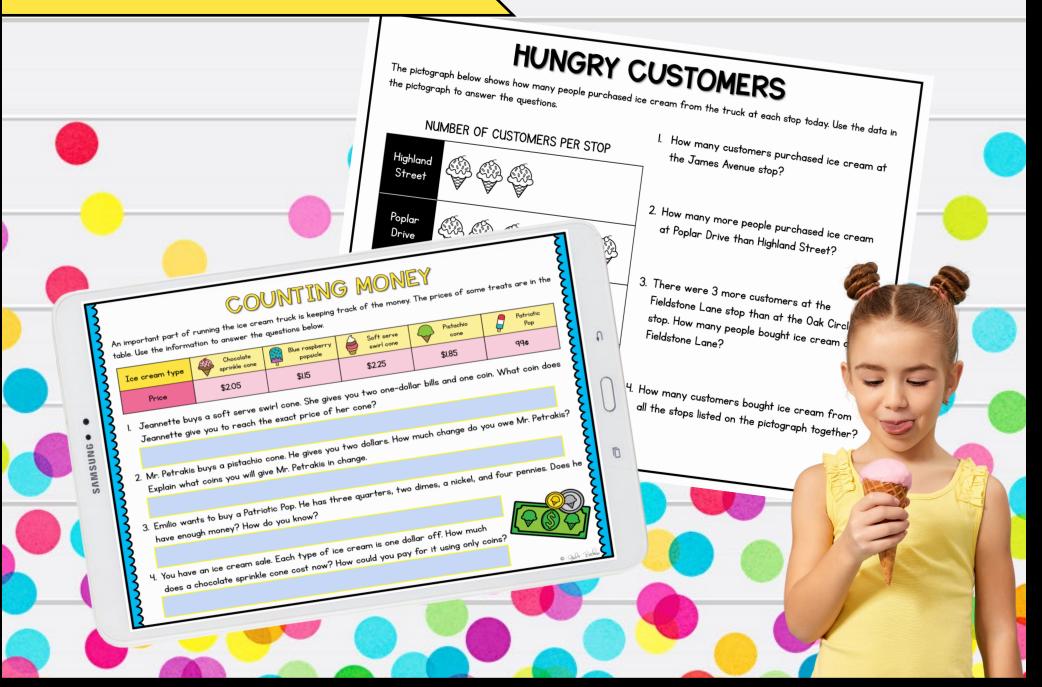
- 2.0A.A.I Use addition and subtraction within 100 to solve one- and two-step word problems.
- 2.0A.C.Y Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.
- 2.NBT.A.2 Count within 1000; skip-count by 5s, 10s, and 100s.
- 2.NBT.A.Y Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits
- 2.NBT.B.5 Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.
- 2.MD.C.7 Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.
- 2.MD.C.8 Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies.
- 2.MD.D.10 Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories.



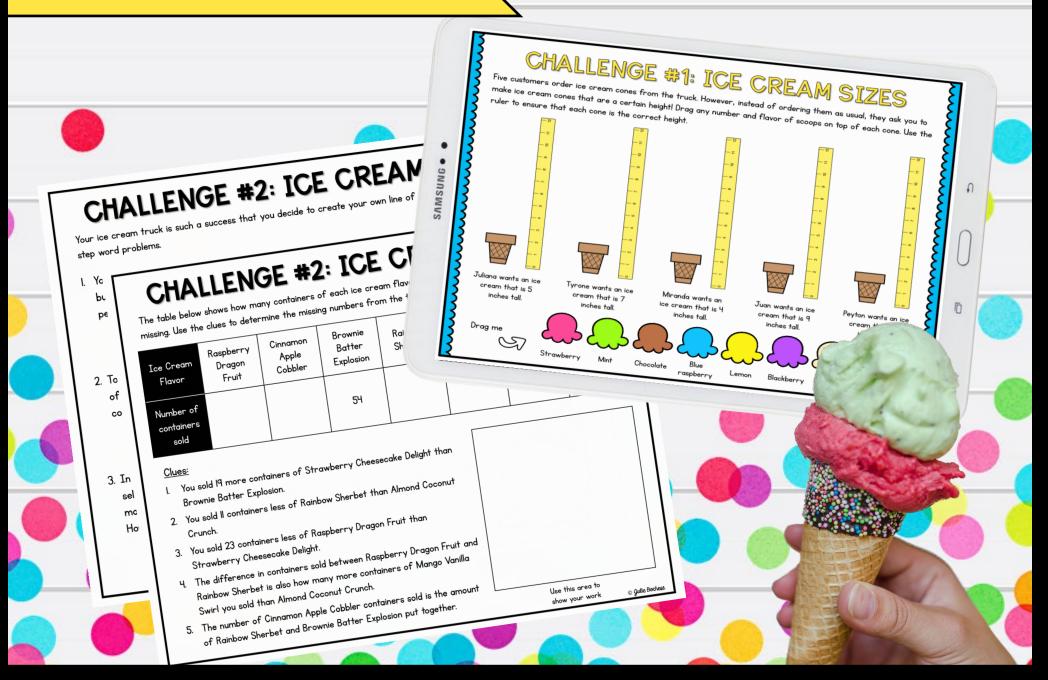
Digital Version Includes Interactive Movable Pieces



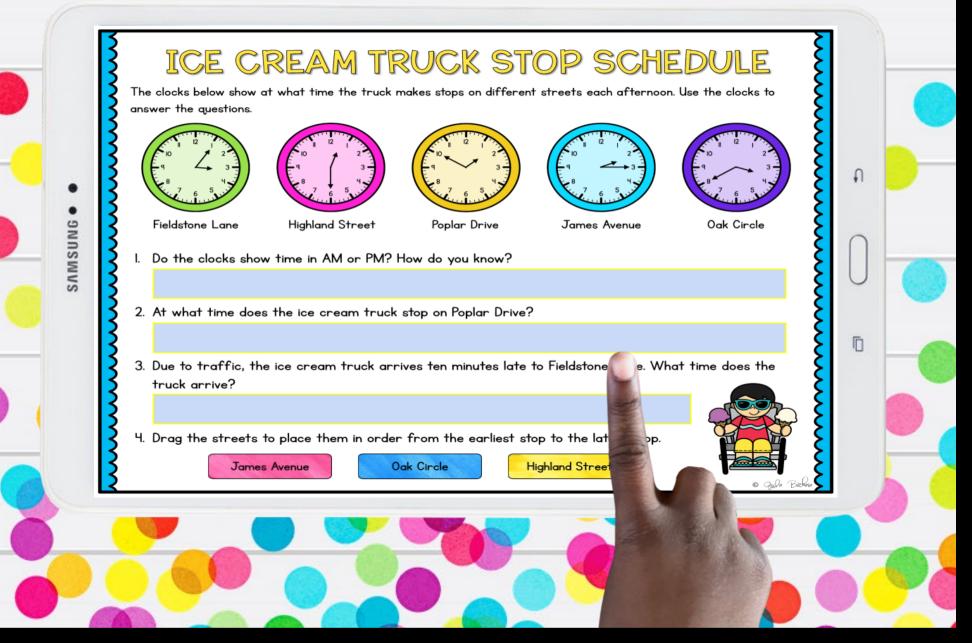
Explores Various Standards-Based Skills



Challenge Activities for Enrichment & Differentiation



Real-Life Math Skills



Student Self-Assessment



SAMSUNG

FOR THE TEACHER

ICE CREAM TRUCK MANIA is a project-based learning task that involves using second grade math standards to solve problems related to running an ice cream truck. It was created for students in second grade. The following standards are addressed:

- 2.0A.A.I Use addition and subtraction within 100 to solve one- and two-step word problems.
- 2.0A.C.Y Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.
- 2.NBT.A.2 Count within 1000; skip-count by 5s, 10s, and 100s.
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- 2.MD.C.8 Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies.
- 2.MD.D.10 Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories

DIRECTIONS

- I. 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.



ICE CREAM TRUCK MANIA

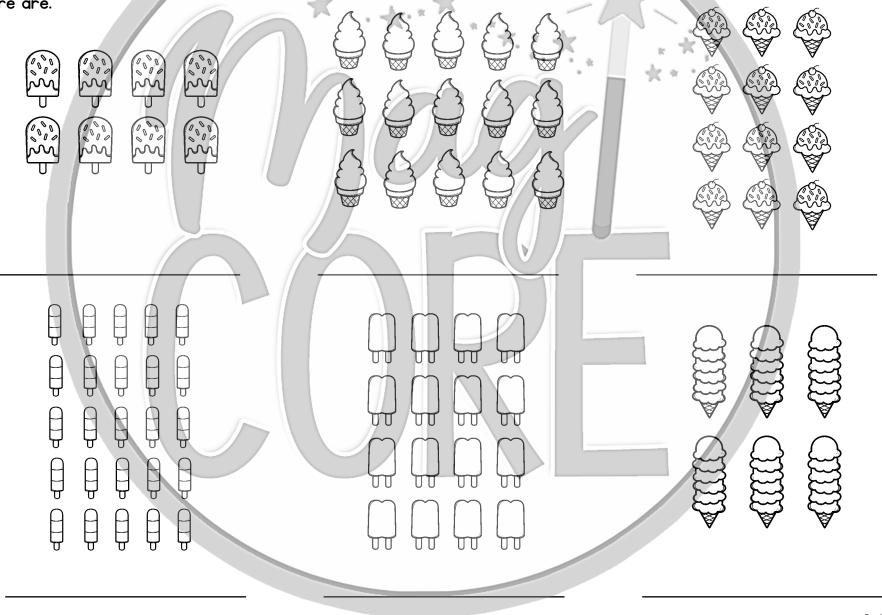
You have been hired to run an ice cream truck! It is your job to stock the ice cream truck with tasty treats, keep track of the money you earned, and serve delicious ice cream to the community in a timely manner!

Here are your tasks:

- Read through the entire packet before beginning.
- Determine how many of each ice cream treat you have in your truck.
- Keep track of your ice cream inventory as you make sales and receive new shipments.
- Place orders for new ice cream treats.
- Answer questions about the ice cream truck's stop schedule.
- Determine a new schedule for the ice cream truck.
- Keep track of the money earned by the ice cream truck.
- Analyze data about the daily profits of the ice cream truck.
- Interpret data about ice cream truck customers from a picture and bar graph.
- Plot data about ice cream truck customers on a bar graph.
- (Optional) Complete the challenge pages.
- Complete the self-reflection and evaluation rubric.

ICE CREAM SUPPLY

Your first step is to determine how many of each menu item you have in the freezer of your ice cream truck. Each frozen treat is shown in an array. Write an addition equation about the array. Solve to find how many of each treat there are.



ICE CREAM SUPPLY

You receive a large order from your ice cream supplier to stock your truck. The table below shows how many of each ice cream type you have now. Use the information in the table to answer the questions.

Ice cream type	Chocolate sprinkle cone	Blue raspberry	Soft serve swirl cone	Pistachio cone	Patriotic Pop
Number in truck	55	40	32	28	64

- I. It's a hot summer day, and you sell 15 blue raspberry popsicles. How many blue raspberry popsicles do you have left? Write an equation to show your thinking.
- 2. You receive a new shipment of 25 Patriotic Pops. How many Patriotic Pops do you have now?
- 3. At the end of the day, you have 12 chocolate sprinkle cones left. How many chocolate sprinkle cones did you sell? Draw a picture to show your thinking.
- 4. You sell 6 pistachio cones. Then the freezer breaks, and 14 pistachio cones melt. You throw the melted cones away. How many pistachio cones do you have left?



ICE CREAM TRUCK STOP SCHEDULE

The clocks below show at what time the truck makes stops on different streets each afternoon. Use the clocks to answer the questions.





Fieldstone Lane

Highland Street



James Avenue



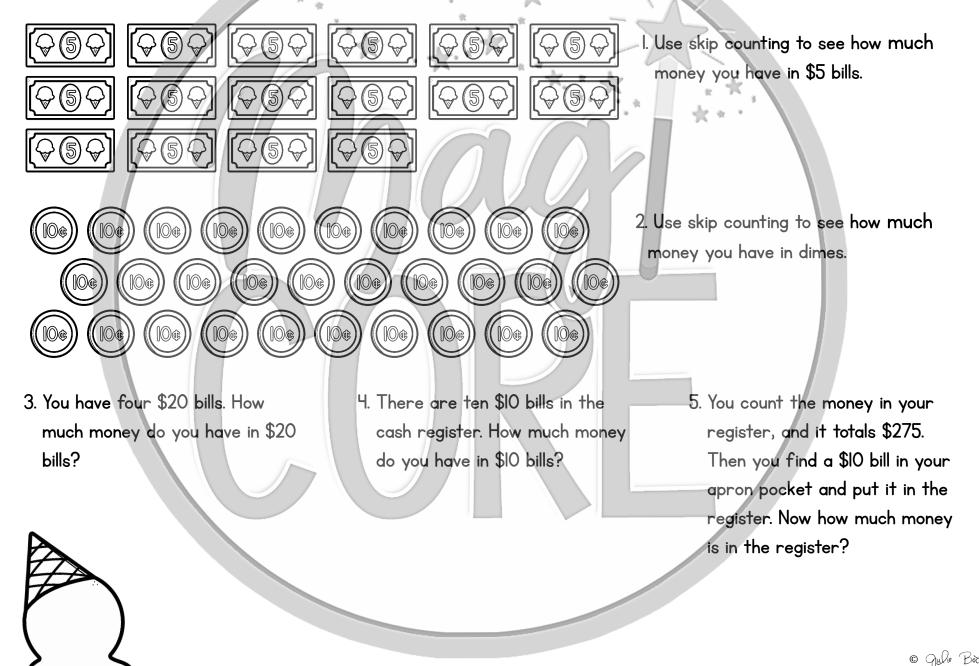
Oak Circle

- Do the clocks show time in AM or PM? How do you know?
- 2. At what time does the ice cream truck stop on Poplar Drive?
- 3. Due to traffic, the ice cream truck arrives ten minutes late to Fieldstone Lane. What time does the truck arrive?
- 4. Write the streets in order from the earliest stop to the latest stop: Oak Circle, Highland Street, James Avenue.



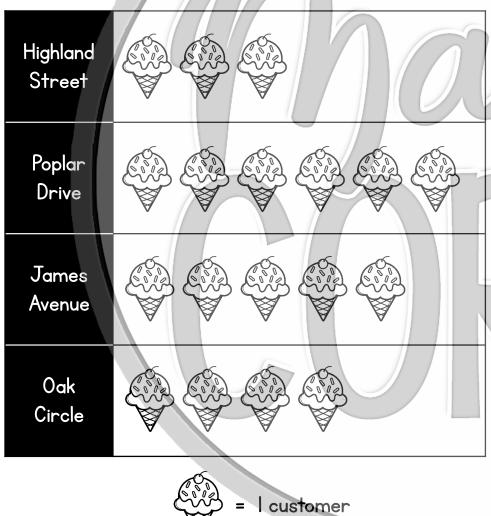
COUNTING MONEY

You are counting your profits after a busy day. Answer the questions about the money you earned.



HUNGRY CUSTOMERS

The pictograph below shows how many people purchased ice cream from the truck at each stop today. Use the data in the pictograph to answer the questions.



NUMBER OF CUSTOMERS PER STOP

I. How many customers purchased ice cream at the James Avenue stop?

2. How many more people purchased ice cream at Poplar Drive than Highland Street?

3. There were 3 more customers at the Fieldstone Lane stop than at the Oak Circle stop. How many people bought ice cream at Fieldstone Lane?

4. How many customers bought ice cream from all the stops listed on the pictograph together?

CHALLENGE #1: ICE CREAM SIZES

Sometimes, customers are very hungry and want a large ice cream. Other customers aren't very hungry and only want a small treat. Cut out the ruler and use it to measure the height of each ice cream to the nearest inch. Fill in the table with the data.

Strawberry soft serve	シンシン
0 1 2 3 4 5 6	
Ice Cream TypeStrawberry soft serveTropical fruit popsicleBlueberry 	
Height to the nearest inch	

© Julie Boches

CHALLENGE #2: ICE CREAM FLAVORS

Your ice cream truck is such a success that you decide to create your own line of ice cream flavors. Answer the twostep word problems.

I. You made 52 containers of chocolate marshmallow ice cream. You made 18 more containers of peanut butter ice cream than chocolate marshmallow, and 24 more containers of cherry pie ice cream than peanut butter. How many containers of cherry pie ice cream did you make?

2. To produce one batch of sugar cookie ice cream, you need 45 gallons of milk. You need 15 more gallons of cream than milk. How much milk and cream do you need altogether to make a batch of sugar cookie ice cream?

3. In one week, you sell 94 containers of your most popular flavor, Georgia peach. You sell 27 fewer containers of birthday cake ice cream than Georgia peach, and 16 more containers of strawberry frozen yogurt than birthday cake ice cream. How many containers of strawberry frozen yogurt do you sell in a week?

CHALLENGE #3: TOPPINGS GALORE

The menu board below shows the base price of each ice cream, plus how much extra each topping costs. Use the prices on the menu to answer the questions.

	MENU
	Ice cream\$I per scoop
	In a cup No charge
	In a cone80¢
	Cherry 50¢ each
	Cookie bits75¢
	Sprinkles 60¢
	Fresh fruit\$1
	Hot fudge20¢
	Caramel
	Whipped cream 15¢
X	

Yusef orders two scoops of ice cream in a cone. He asks for hot fudge, whipped cream, and sprinkles. How much does Yusef's ice cream cost?

2. Daniela wants three scoops of ice cream in a cup with fresh fruit, cookie bits, and a cherry. She has a coupon for one free topping. If she applies the coupon to the most expensive topping, how much does Daniela's ice cream cost?

3. Paolo has \$5. He knows he wants two scoops of ice cream in a cone. What toppings can Paolo get so that he spends exactly \$5?

4. What ice cream would you order? Calculate the cost of your ice cream.



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.

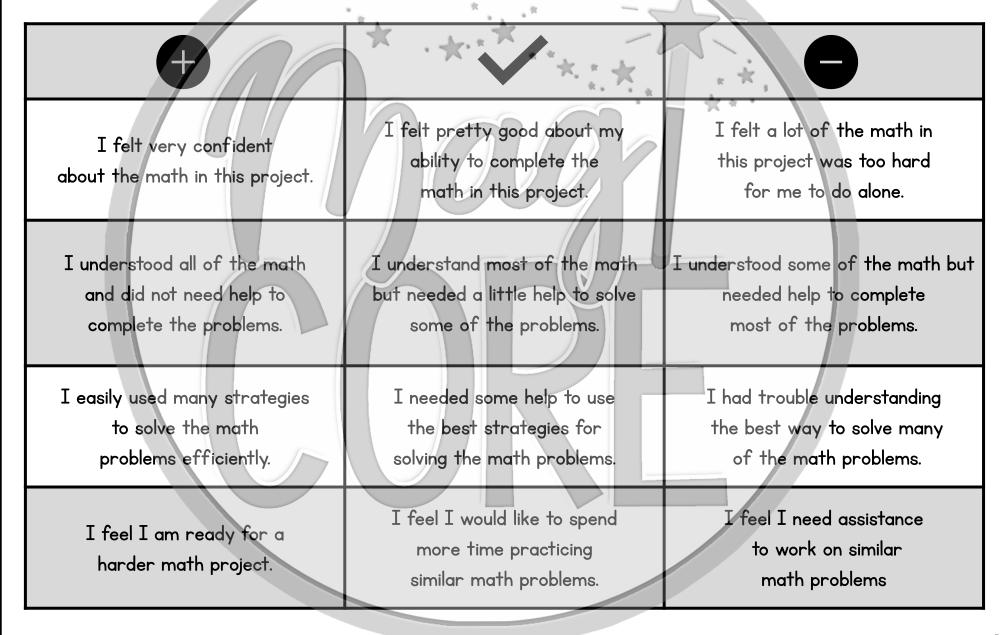
This was just right.

V

I found this very challenging.

SELF EVALUATION

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



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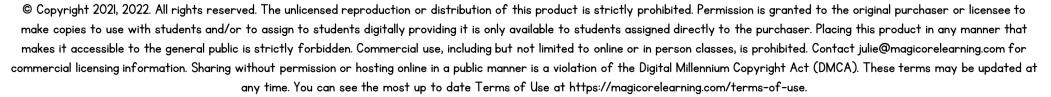
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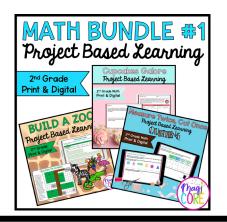
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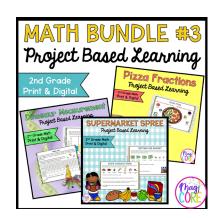
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