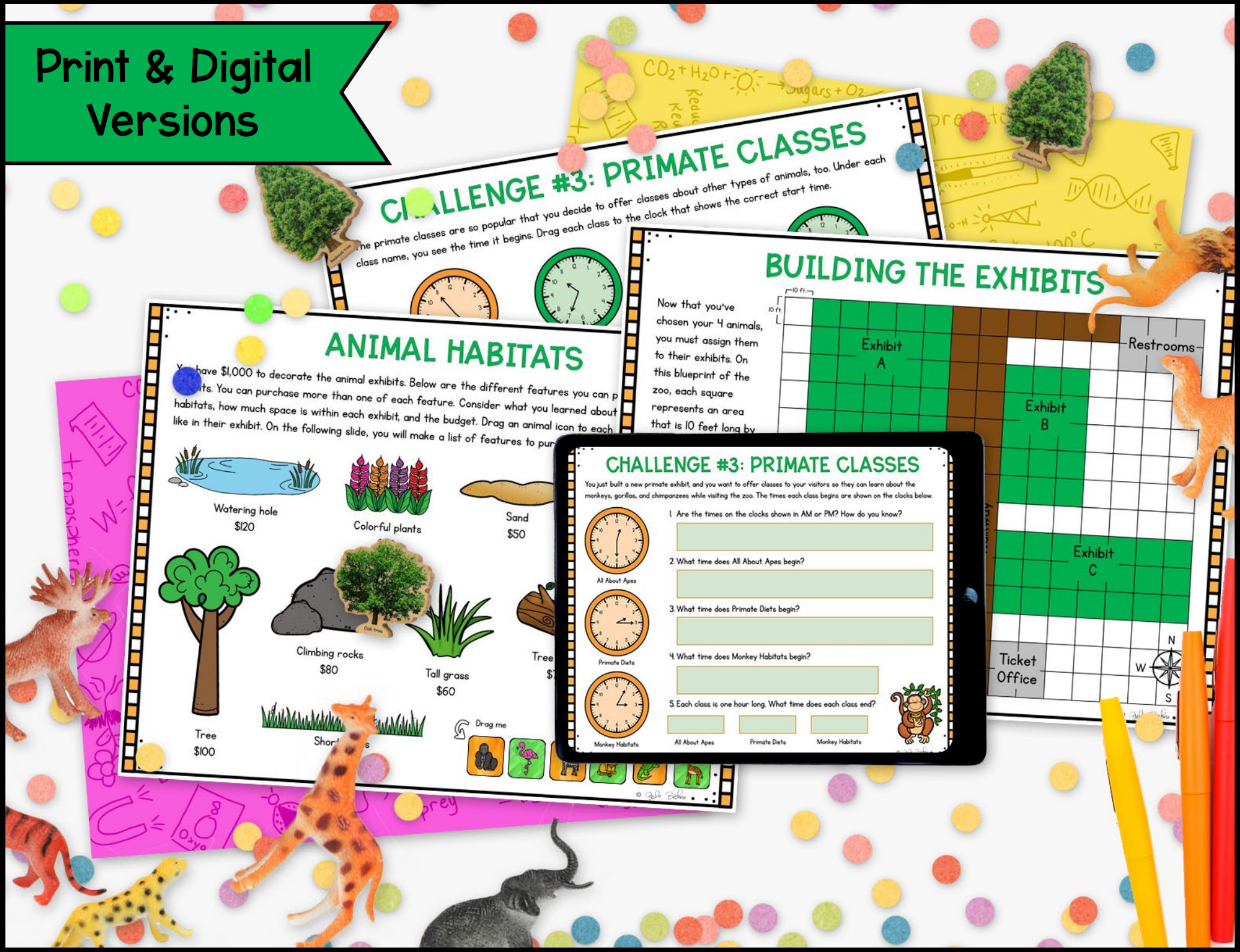
Build A Zoo

Project Based Learning

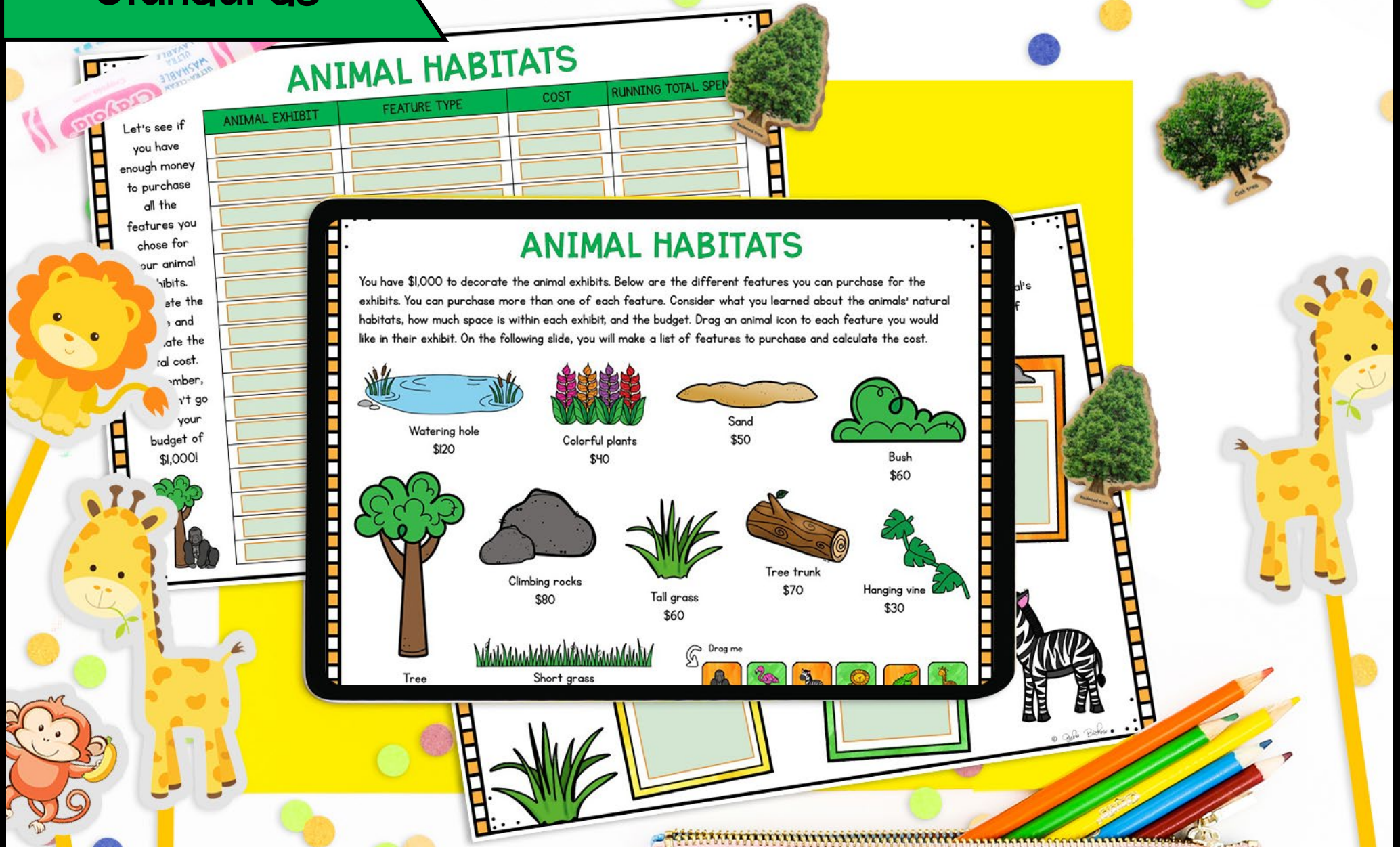
1st Grade Print & Google Slides



Print & Digital Versions



Aligned to Math Standards



Challenge Activities for Differentiation

ATTENDANCE

pictograph to answer the questions.

FIELD TRIPS AT THE ZOO

MARCH	● ● ●

4. How many more school groups

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.

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

es begin?

ts begin?

abitats begin?

g. What time does each class end?

imate Diets

Monkey Habitats

CHALLENGE #3: PRIMATE CLASSES

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

Nocturnal Critters 10:35 am

What's it like to be a Zookeeper? 11:15 am

Big Cats 4:55 pm

Our Penguin Pals 1:50 pm

Endangered Animals 3:25 pm

Animals of the Arctic 9:40 am

TABLE OF CONTENTS

1. Teacher Directions & Standards Addressed
2. Student Directions
3. Choosing Your Animals
4. Building the Exhibits (Measurement)
5. Animal Habitats (Money, Addition)
6. Feeding Time (Word Problems with Addition and Subtraction)
7. Zoo Brochure
8. Zoo Attendance (Word Problems with Addition and Subtraction, Representing and Interpreting Data)
9. Challenge #1: Reptile House (Composite Shapes, Place Value)
10. Challenge #2: Snack Stand (Money, Word Problems with Addition and Subtraction)
11. Self-Reflection and Evaluation
12. Answer Key



THANK YOU FOR PURCHASING THIS MAGICORE DIGITAL RESOURCE!

The Google Slides version of this resource requires that you make a copy of the resource to your own Google Drive.

© Julie Bachose

FOR THE TEACHER

BUILD A ZOO is a project-based learning task that involves using first grade math standards to solve problems related to building and maintaining a zoo. It was created for students in first grade. The following standards are addressed:

- 1.OA.A.1 Use addition and subtraction within 20 to solve word problems.
- 1.OA.A.2 Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20.
- 1.OA.C.6 Add and subtract within 20, demonstrating fluency for addition and subtraction within 10.
- 1.NBT.B.3 Compare two two-digit numbers based on meanings of the tens and ones digits with the symbols >, =, and <.
- 1.NBT.C.4 Add within 100, including adding a two-digit number and a one-digit number and adding a two-digit number and a multiple of 10.
- 1.NBT.C.5 Given a two-digit number, mentally find 10 more or 10 less than the number.
- 1.MD.A.1 Order three objects by length.
- 1.MD.A.2 Express the length of an object as a whole number of length units by laying multiple copies of a shorter object (the length unit) end to end.

DIRECTIONS:

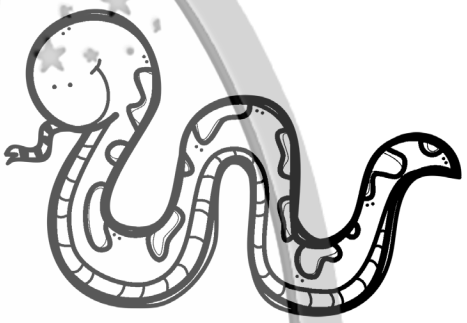
1. Assign students to work alone or in small groups.
2. Preview the activity with your students.
3. Allow students class time to complete the activity. This can span several days.
4. Allow students an opportunity to complete extra challenge activities.
5. Allow students to complete the self-evaluation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



© Julie Bachose

BUILD A ZOO

You have decided to open a zoo! It is your job to choose the animals in your zoo, build and design thoughtful enclosures for your animals to live in, keep your animals happy and healthy, and attract visitors to your zoo!



Here are your tasks:

- Read through the entire packet before beginning.
- Choose the animals for your zoo.
- Create a blueprint of your zoo.
- Calculate the length and width of the animal exhibits.
- Research and learn about your animals' natural habitats.
- Recreate the animal habitats in the exhibits while following a budget.
- Research animal feeding habits in the wild.
- Calculate how much food will be required to feed your animals.
- Write a blurb for a brochure promoting your zoo and persuading people to visit.
- Analyze profits for your zoo based on tickets sold.
- Interpret data about school field trips to the zoo.
- (Optional) Complete the challenge pages.
- Complete the self-reflection and evaluation rubric.

© Julie Bachose

CHOOSING YOUR ANIMALS

Your first step is to choose which animals to feature in your zoo. Below are six animal types you may choose from. Think of pros and cons of including each animal type in your zoo. For example, you might consider if an animal will be exciting to visitors, or how difficult it might be to care for that type of animal. After thinking about your options, choose 4 types of animals for your zoo. Circle the animals you chose.

Animal	Pros	Cons
Gorilla 		
Zebra 		
Giraffe 		
Crocodile 		
Flamingo 		
Lion 		

© Julie Bachose

ANIMAL HABITATS

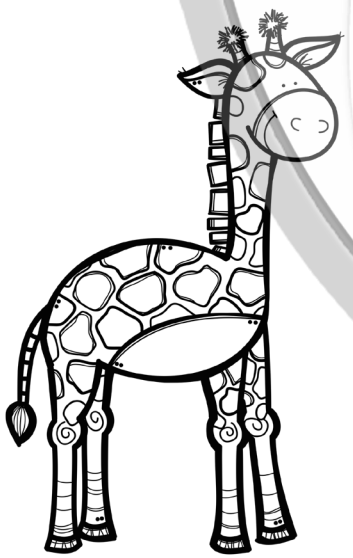
Now that the animal exhibits have been built, it is time to decorate them. You want to make each exhibit resemble the animals' natural habitat as closely as possible. Research in which type of habitat each animal lives in the wild. Take notes on what you learn.

ANIMAL #1

ANIMAL #2

ANIMAL #3

ANIMAL #4



© Julie Bachose

FEEDING TIME

With the animals settled in their new exhibits, it is mealtime at the zoo! You want to ensure that each animal's diet is the same as what they might eat in the wild. Research what each type of animal typically eats so that you know what type of food to buy. Take notes on what you learn.

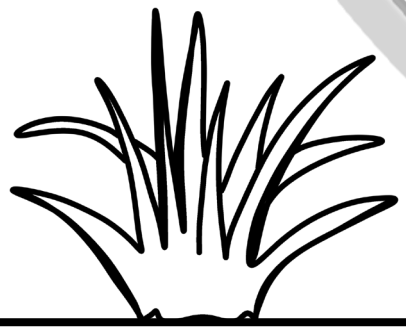
ANIMAL #1

ANIMAL #2

ANIMAL #3

ANIMAL #4





© Julie Bachose

ZOO ATTENDANCE

The table below shows the price of admission to your zoo. Use the information in the table to answer the questions.

TICKET TYPE	Senior Citizen (65+ years)	Adult (18-64 years)	Child (2-17 years)	Baby (0-1 years)
TICKET PRICE	$6	$8	$3	Free

1. The Johansen family goes to the zoo. The family is Grandma (68 years old), Mom (38), Dad (39), Michael (8), Lara (4), and Rowan (1). How much will the Johansens spend on adult tickets?

2. How much will the Johansens spend on child tickets?

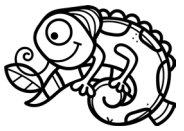
3. How much more will the Johansens spend on adult tickets than on child tickets?

4. The Johansens have a coupon for $2 off a senior citizen ticket. How much will Grandma's ticket cost with the coupon?

© Julie Bacheor



CHALLENGE #1: REPTILE HOUSE



Your zoo is a huge success! You expand by building a reptile house. Each reptile exhibit is a composite shape made up of several smaller shapes. Follow the instructions to build a blueprint of the reptile house below. Draw the shapes that make up each composite shape. Label the exhibits with the reptile name.

1. The boa constrictor exhibit is made from these shapes:



2. The two-horned chameleon exhibit is made from these shapes:



3. You have four fire-bellied toads. Each toad needs one of these shapes:

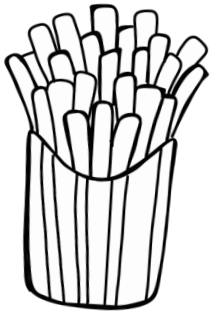


4. The poison dart frog exhibit is in the shape of a rectangle. It is made up of 3 smaller shapes.

Magi CORE

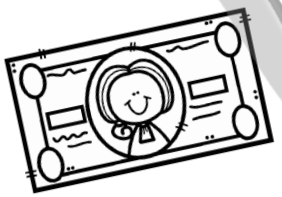
© Julie Bachose

CHALLENGE #2: SNACK STAND



4. You are looking to add a new menu item. You are deciding between French fries and a turkey wrap. It will cost the zoo $2 to purchase and prepare each order of French fries, and they can be sold for $3. It will cost the zoo $4 to purchase and prepare each turkey wrap, but each wrap can be sold for $6. Which new menu item is the better choice? Explain.

5. Chrystana spent $12 at the snack stand. Her sister Alice spent $4 less than Chrystana at the snack stand. How much did Chrystana and Alice spend at the snack stand all together?



6. The zoo's business manager suggests raising all the prices at the snack stand by $1 to increase profit. Why might this be a good idea? Why might it be a bad idea? Decide whether you will take your business manager's advice.

Chagl CORE

© Julie Bacheor

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.

© Julie Bathose

Terms of Use

How Can I Use This Resource?

Thank you for trusting MagiCore. Our mission is to create resources that support teachers and promote student success. Please note that this resource is licensed for use by a single teacher in a classroom setting. If you need to use this resource with more than one teacher and/or across multiple classrooms, additional licenses are available at a discount. You can purchase additional licenses by visiting your TPT "Purchases" page and then selecting "Download Additional Licenses" or by contacting me at julie@magicorelearning.com.



Good to Go



Not O.K.

- Use this resource personally or with your own children
- Use this resource in your own classroom with your students.
- Provide this resource to your students to use at your instruction.
- Print and/or copy for use in your own classroom.
- Provide printed pages to a substitute teacher with the sole purpose of instructing your students.
- Share with your students via a secure document portal or electronic learning platform that requires individual user verification and limits access to only the students in your own classroom (e.g. Google Classroom)
- Review this resource with others with the sole purpose of recommending it to others for purchase, provided you share one of the links below:

  https://magicorelearning.com/

  https://www.teacherspayteachers.com/Store/Magicore

- Share with others to use personally.
- Share with others to use in another classroom.
- Print or copy any page(s) and distribute them to other teachers or other classrooms.
- Publish or host online in a manner where any of the material is accessible to anyone who is not a student in your own classroom., including but not limited to personal, classroom, or district websites that are accessible to the general public.
- Use this resource commercially (e.g. Outschool).
- Publish, sell, or otherwise distribute this product to anyone in manner inconsistent with these terms of use.

© Copyright 2020, 2022. All rights reserved. The unlicensed reproduction or distribution of this product is strictly prohibited. Permission is granted to the original purchaser or licensee to make copies to use with students and/or to assign to students digitally providing it is only available to students assigned directly to the purchaser. Placing this product in any manner that makes it accessible to the general public is strictly forbidden. Commercial use, including but not limited to online or in person classes, is prohibited. Contact julie@magicorelearning.com for commercial licensing information. Sharing without permission or hosting online in a public manner is a violation of the Digital Millennium Copyright Act (DMCA). These terms may be updated at any time. You can see the most up to date Terms of Use at https://magicorelearning.com/terms-of-use.

Let's Connect!

www.magicorelearning.com

https://www.teacherspayteachers.com/Store/magicore

https://www.facebook.com/MagiCoreLearning

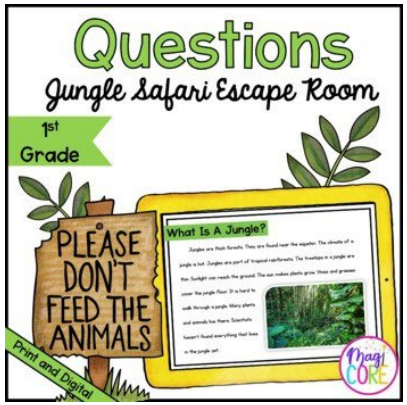
https://www.instagram.com/magicorelearning

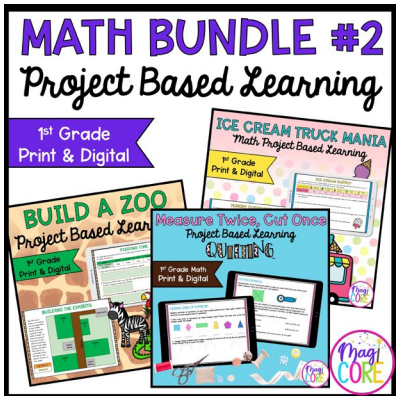
https://www.pinterest.com/magicorelearning/_shop/

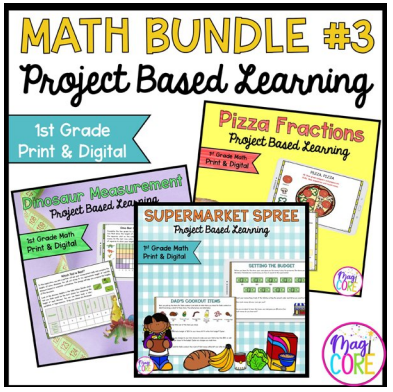
Julie@magicorelearning.com

Looking for more?









Membership Opportunity!

If you love these resources and want access to more, check out my membership opportunity with the MagiCore Club.



Join my MagiCore Club waitlist!

MagiCore Club opens its membership doors twice a year to offer teachers all of the resources you love, with a membership discount. You can also find support through my custom learning plan.

Find out more magicorelearning.com/membership.

Credits

MISSYMOOTYRUSSELL