
4th Grade
MEASUREMENT CONVERSIONS
ZOO ESCAPE ROOM
MagiCORE
PRINTABLE • GOOGLE • WEBSCAPE™

Print & Digital Options

Printable Directions

Materials:

- Printed cards for each team
- Computer or Tablet for Videos (optional)
- Scrap Paper (optional)

Duration: Approximately 90 minutes. You can also split this up into four 20- to 30-minute activities over four days, having students complete one challenge per day.

Prep:

Print challenge cards and recording sheet for each team. Place challenge cards into envelopes.

Directions:

1. Split your class into teams of 4-5 students. Ensure teams are multi-level.
2. (Optional) Show the introduction video.
3. Give each team their envelope for challenge #1.
4. Allow time for each team to work through each challenge. Once they solve the challenge, they should turn the code in to the teacher to check before the teacher assigns the consecutive challenge. (Optional) Teacher may show completion videos after each challenge is solved.
5. The first team to complete all four challenges solves the case and team members receive certificates.
6. Assign "oops" cards to help create equity. Give an "oops" card to students who are taking the lead, to encourage them to step back and give other students a turn.

Digital Directions

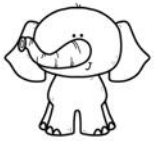
…s link for each student
…s link for each student

…ately 80 minutes. You can also split this up into
…ions, having students complete one challenge per

… Google Slides and Google Sheets Digital Escape
…work through each challenge in the slides.
…nto the Google Sheet to self-check their
…will prompt students to check their work or
…llenge. Complete all four challenges to
…ficate.

Print Friendly Version

Challenge #2



1. Solve each place value problem.
2. Record answers on your brochure.
3. Check your answers in the Escape the Zoo Decoder.
4. Put the photo of the elephant into your zoo album.
5. Scan the QR code in the corner of the next page.
6. Move on to challenge #3

2. Elton the elephant's weight is shown below. Which statement correctly describes the relationship between the outlined digits below?

12,696

a. The 6 in the rectangle is 10 times greater than

1. The two largest
and Elliot. The zo
which elephant w
that correctly co
comparing their

12,696

Elton's weight (in pounds)

a. <
b. >
c. =
d. +

Challenge #3

1. Solve each measurement problem.
2. Record answers on your brochure.
3. Check your answers in the Escape the Zoo Decoder.
4. Put the photo of the monkey into your zoo album.
5. Scan the QR code in the corner of the next page.
6. Move on to challenge #4.

1. A baby proboscis monkey weighs 3 pounds. How many ounces is this?

a. 36 ounces
b. 45 ounces
c. 54 ounces
d. 48 ounces

2. Marvin the monkey loves to sleep in his hammock. Today, he slept in his hammock for $4\frac{1}{2}$ hours. How many minutes did Marlin spend in his hammock today?

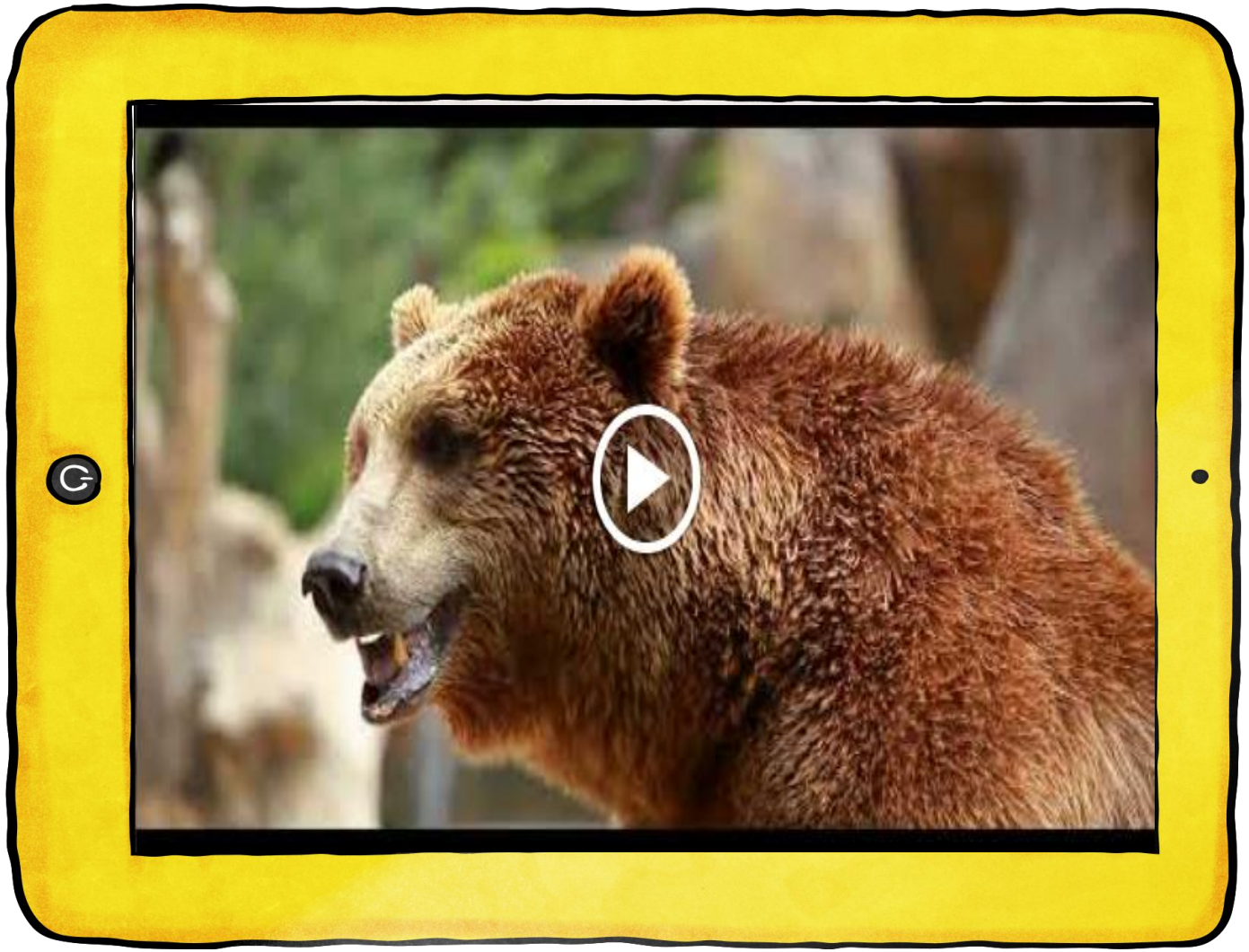
a. 240 minutes
b. 244 minutes
c. 270 minutes
d. 180 minutes

3. The table below shows the lengths of different monkeys' tails in meters and centimeters. Which measurement belongs in the empty space in the table?

Monkey type	Tail length (m)	Tail length (cm)
Howler	0.73	73
Macaque	0.85	85
Baboon		61
Chimpanzee	0.53	53

a. 6.1
b. 0.61
c. 0.061
d. 61.0

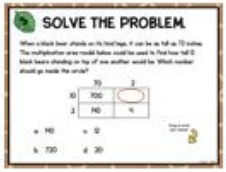
Video Tell the Story



Four 4th Grade Math Skills & Challenges

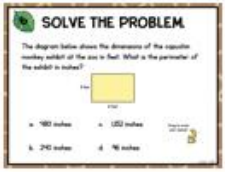
Zoo Escape Room

1. Challenge #1: Solve the multiplication problems to hear the bears' question.

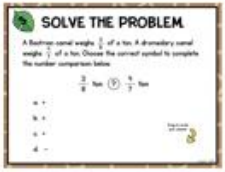


2. Challenge #2: Solve the place value problems to hear the elephants' question.

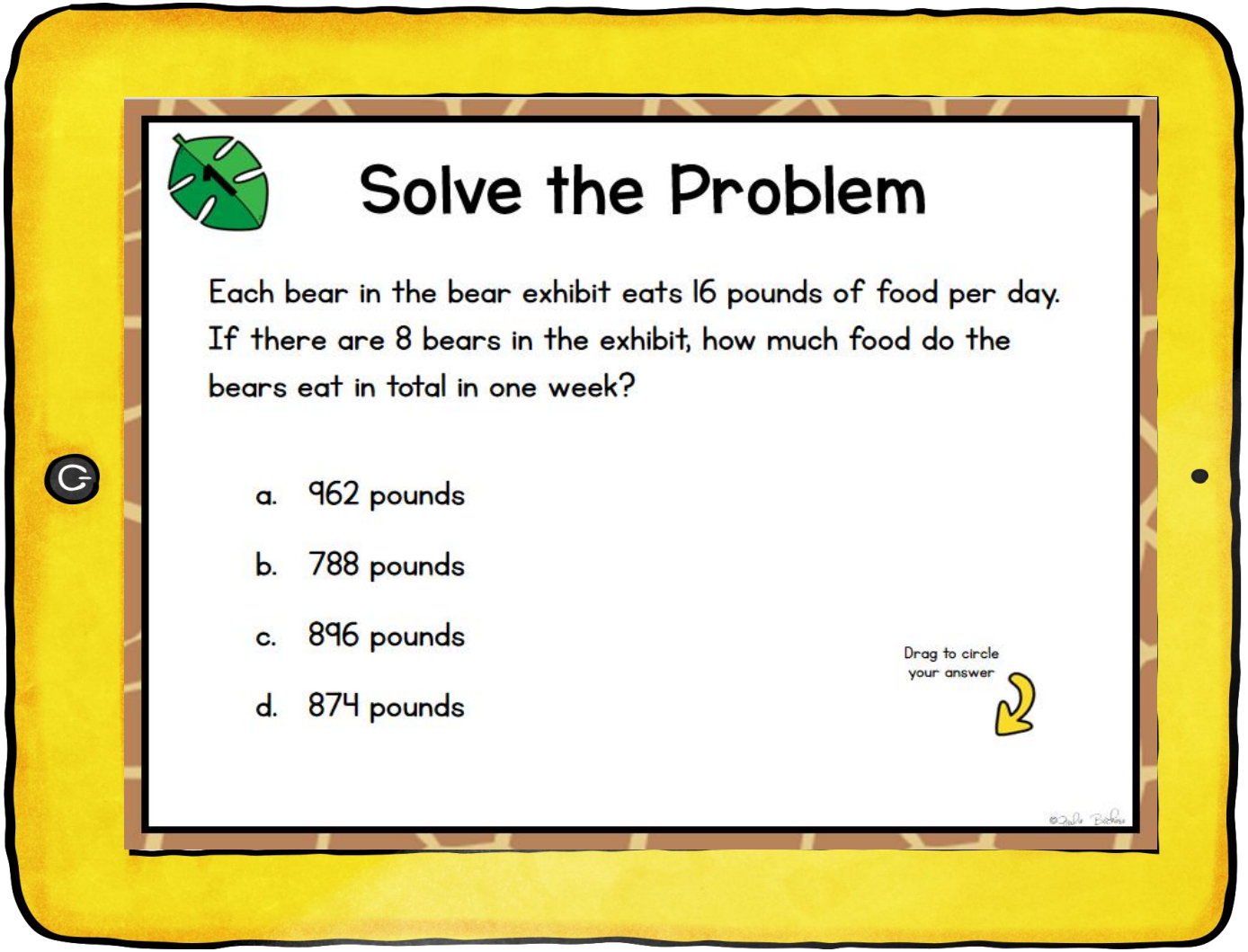
3. Challenge #3: Solve the measurement problems to hear the monkeys' question.



4. Challenge #4: Solve the problems with fractions to hear the camels' question.



Challenges are Quick



Standards - Based Questions

Solve the Problem

The zookeepers feed the elephants in the exhibit a diet of grass, leaves, fruit, and tree bark. The amount of each type of food the elephants are fed in one month is shown in the table below. When rounded to the nearest hundred, which two foods are fed to the elephants in equal amounts?

Food type	Grass	Leaves	Fruit	Bark
Amount	2,019 lbs.	1,954 lbs.	2,063 lbs.	2,180 lbs.

C

a. Grass and Fruit

nd Leaves

d Fruit

nd Bark

Drag to circle your answer

Challenge #1

1. Solve each multiplication problem.
2. Record answers on your brochure.
3. Check your answers in the Escape the Zoo Decoder.
4. Put the photo of the bear into your zoo album.
5. Scan the QR code in the corner of the next page.
6. Move on to challenge #2.

1. Each bear in the bear exhibit eats 16 pounds of food per day. If there are 8 bears in the exhibit, how much food do the bears eat in total in one week?

   a. 962 pounds
   b. 788 pounds
   c. 896 pounds
   d. 874 pounds

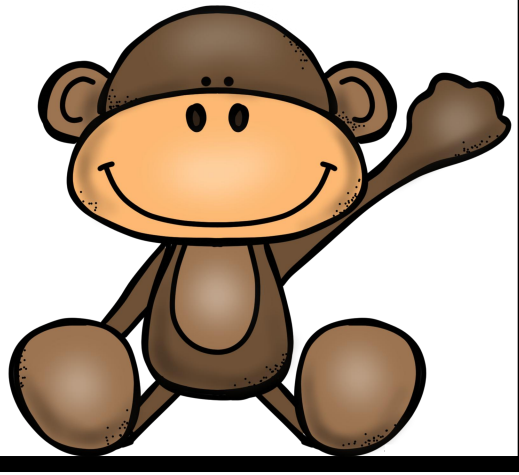
2. There are 4 bear cubs in the exhibit. Each bear cub weighs approximately 65 pounds. What is the total weight of the bear cubs?

   a. 260 pounds
   b. 320 pounds
   c. 300 pounds
   d. 280 pounds

3. When a black bear stands on its hind legs, it can be as tall as 72 inches. The multiplication area model below could be used to find how tall 12 black bears standing on top of one another would be. Which number should go inside the circle?

	70	2
10	700	◯
2	140	4

   a. 140
   b. 720
   c. 12
   d. 20



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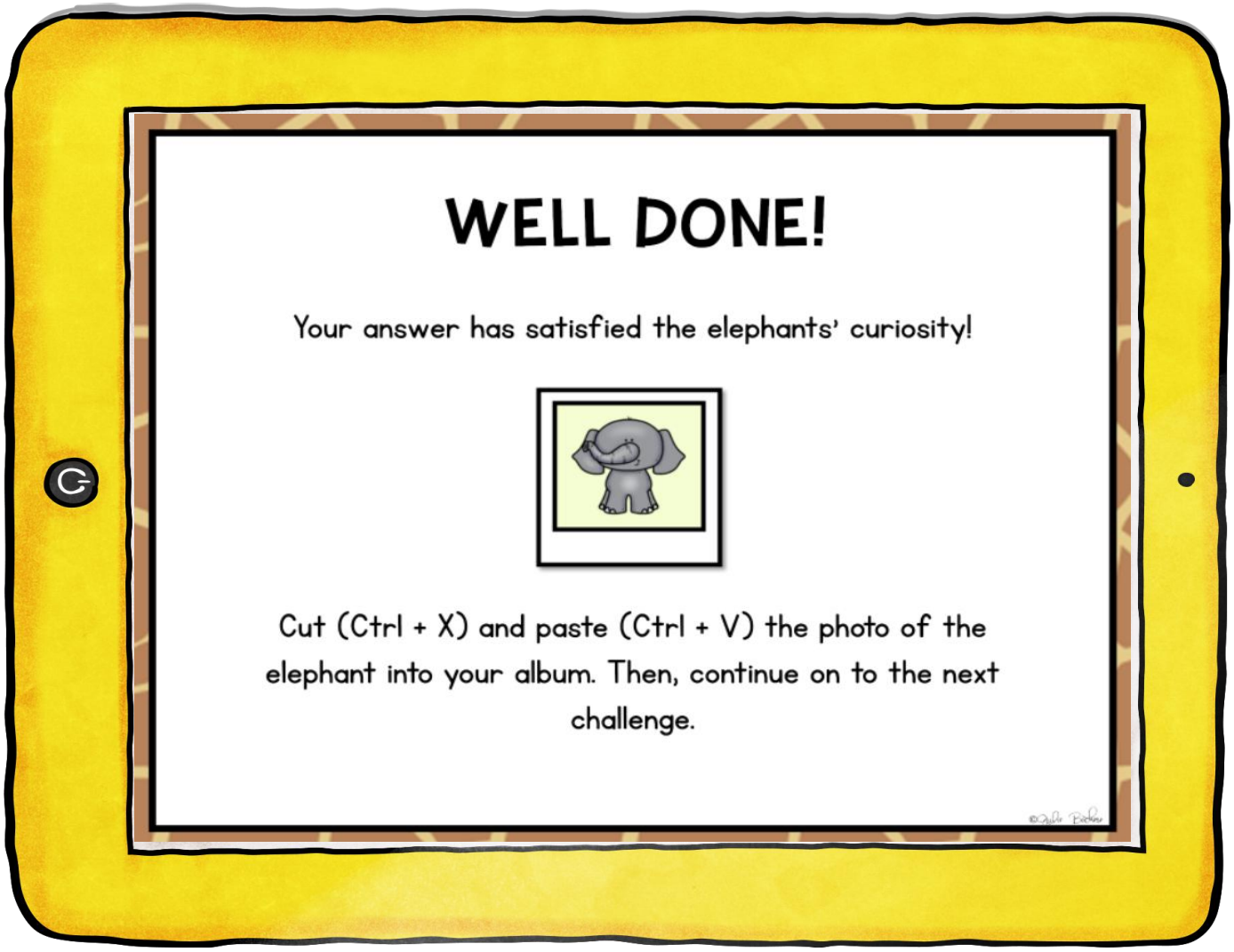
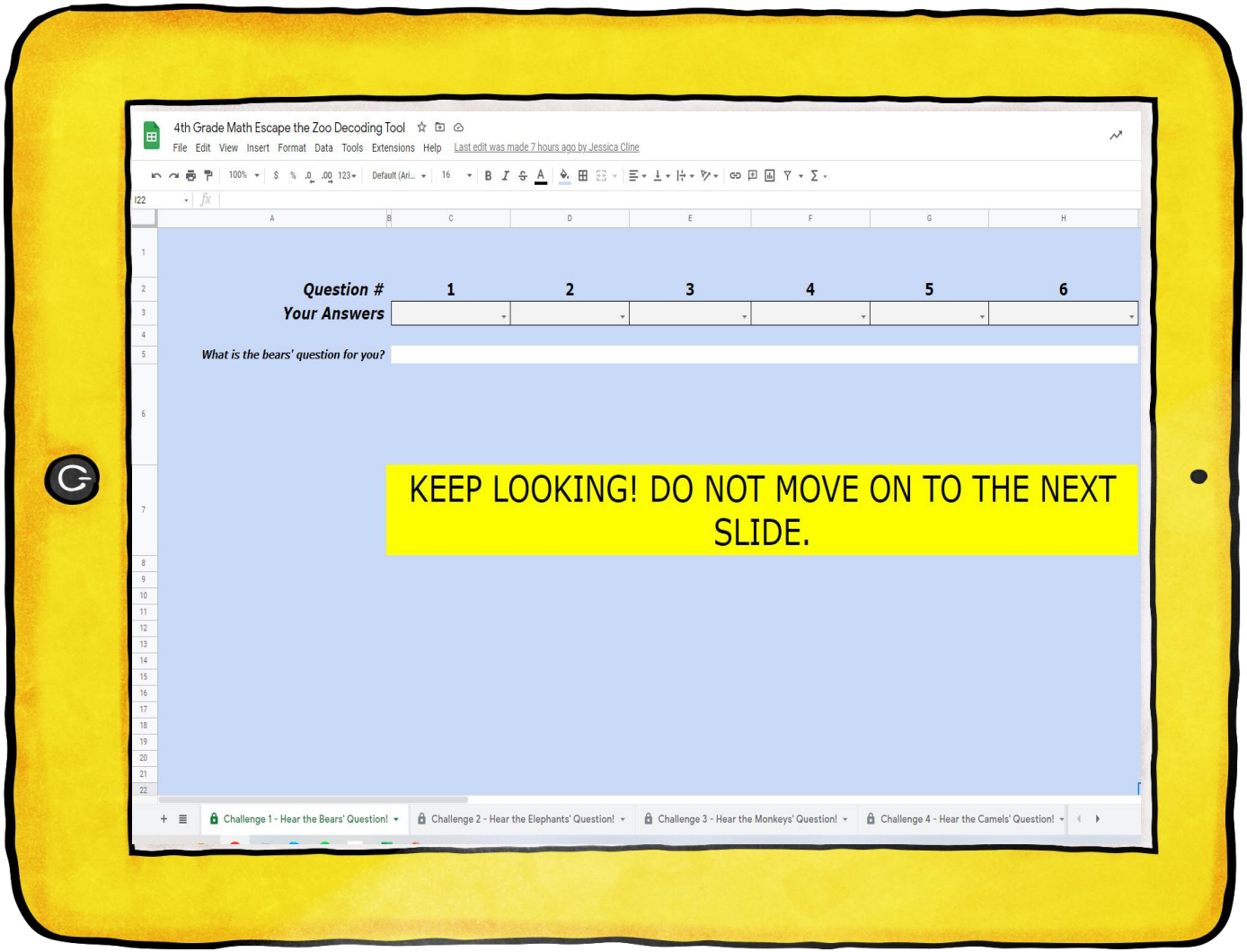
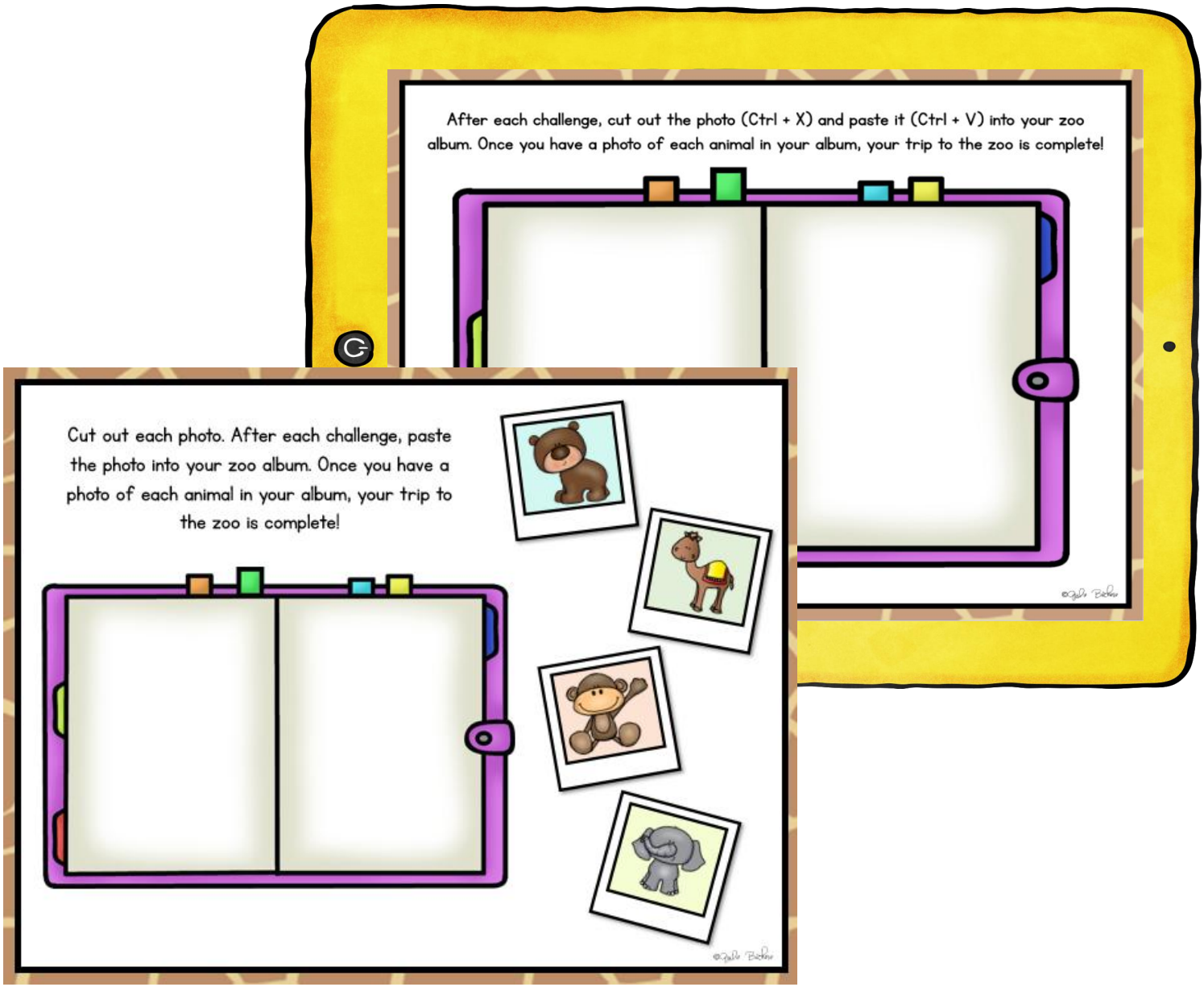
Google Slides Prompt Students to use Decoder



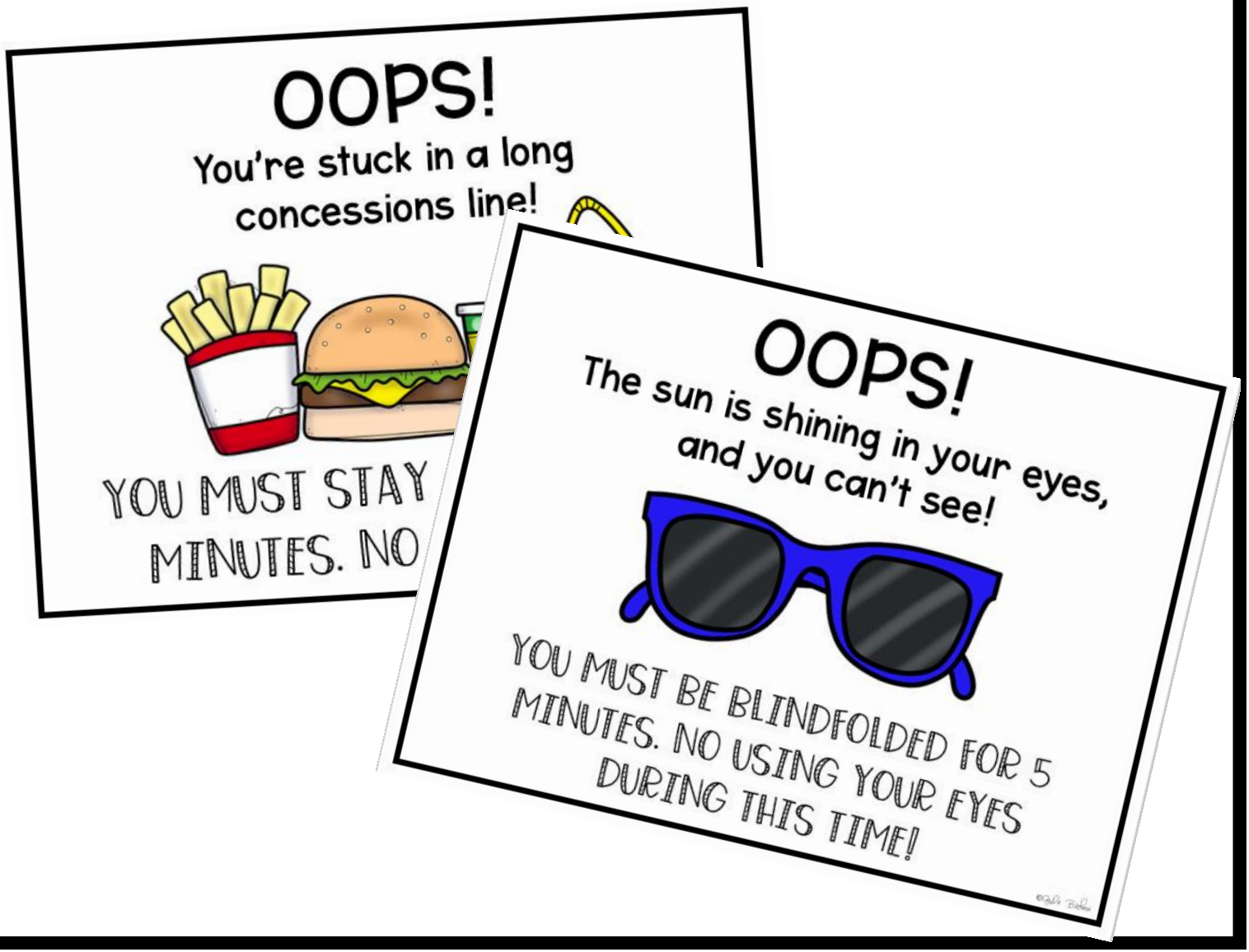
Decoder in Digital Version is Self-Checking



Interactive Elements



Printable Version Includes "Ooops!" Challenges



Printable Version Includes Recording Brochure & Decoder