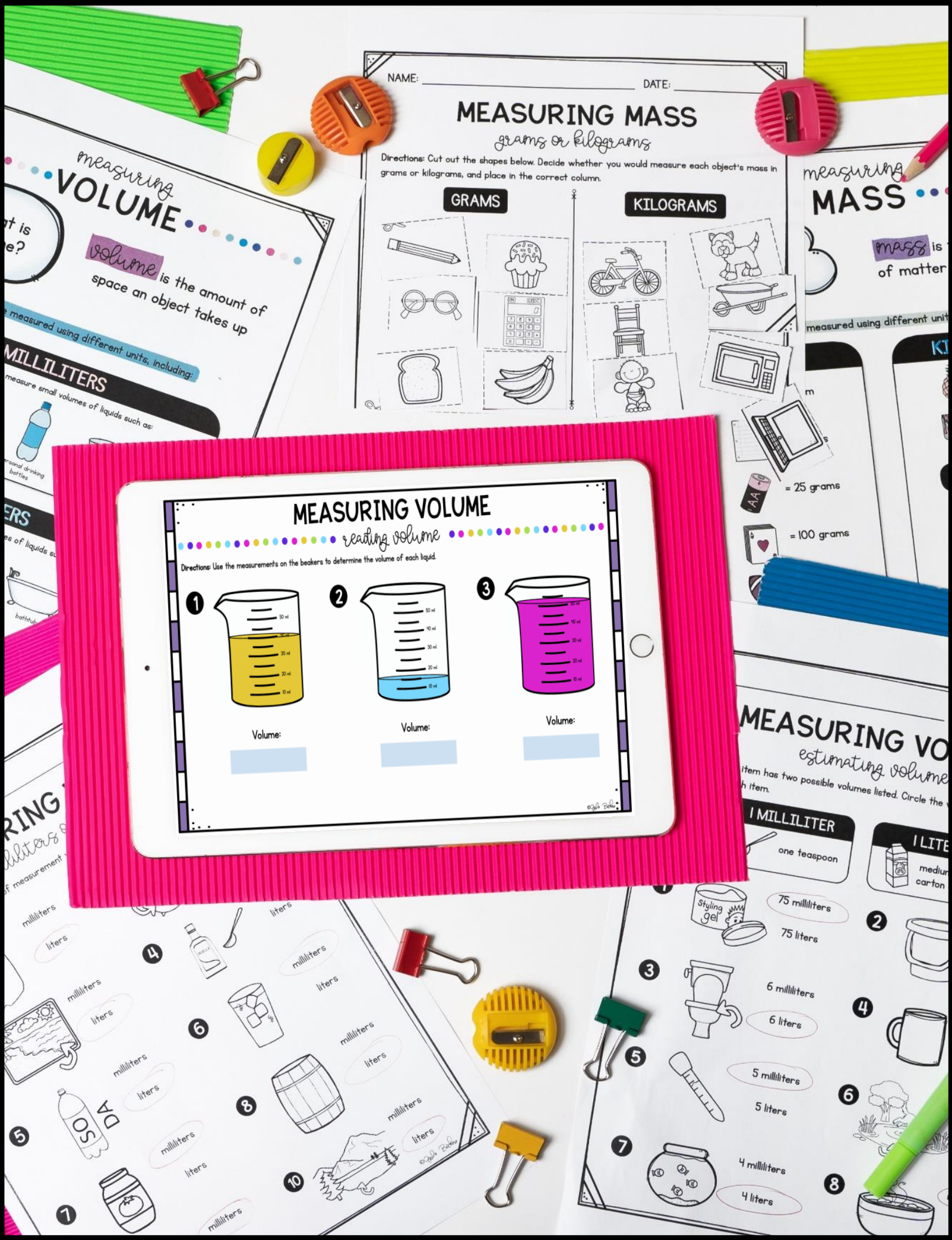
MEASURING MASS & VOLUME

3rd Grade

Printable & Google Slides

Common CORE Kingdom


NAME: DATE:
MEASURING MASS
grams or kilograms
Directions: Cut out the shapes below. Decide whether you would measure each object's mass in grams or kilograms, and place in the correct column.
GRAMS
KILOGRAMS
measuring VOLUME
volume is the amount of space an object takes up
MILLILITERS
measure small volumes of liquids such as:
MEASURING MASS
mass is
of matter
= 25 grams
= 100 grams
MEASURING VOLUME
reading volume
Directions: Use the measurements on the beakers to determine the volume of each liquid.
Volume:
Volume:
Volume:
MEASURING VO
estimating volume
1 MILLILITER
one teaspoon
75 milliliters
75 liters
6 milliliters
6 liters
5 milliliters
5 liters
4 milliliters
4 liters
milliliters
liters

measuring

VOLUME

What is volume?

volume is space an obj

Volume can be measured using different units

MILLILITERS

might use MILLILITERS to measure small vol

LITER

u might use LITERS to measure large volumes

1,000 milliliters

NAME: _____ DATE: _____

MEASURING VOLUME

estimating volume

Directions: Each item has two possible volumes listed. Circle the volume that accurate for each item.

1 MILLILITER	1 LITER
one teaspoon	medium-sized carton of milk

1.

75 milliliters / 75 liters

2.

3.
6 milliliters / 6 liters

4.

5.
5 milliliters / 5 liters

6.

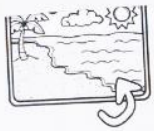
7.
4 milliliters / 4 liters

8.

NAM

Directi object.

1

3. 
milliliters / liters

4.

5.

milliliters / liters

6.

7.
milliliters / liters

8.

9.

milliliters / liters

10.

NAME: _____ D

MEASURING MA

grams or kilograms

Directions: Cut out the shapes below. Decide whether you would grams or kilograms, and place in the correct column.

GRAMS | KI

measuring

MASS

What is mass?

mass is of matter

Mass can be measured using different units,

GRAMS

= 1 gram

= 5 grams

= 25 grams

= 100 grams

= 400 grams

= 600 grams

KIL

1,000 grams = 1 kilogram

MEASURING MASS
mass puzzles
Directions: Assemble the puzzles by dragging the pieces. Each puzzle will have two pieces: one item and its corresponding mass.
30 kilograms
75 grams
5,000 kilograms
200 kilograms
1 kilogram
1 gram
500 grams
8 kilograms
5 grams
20 grams
DATE:
NAME:
measuring
VOLUME
Directions: Decide wh
object. Circle your a
What is
volume
ASURING MASS
grams or kilograms
below. Decide whether you would measure each object's mass in
in the correct column.
KILOGRAMS
= 1 gram
= 5 grams
= 25 grams
= 100 grams
= 400 grams
= 600 grams
1,000 grams = 1 kilogram

measuring
VOLUME

What is volume?

volume is the amount of space an object takes up

Volume can be measured using different units, including:

MILLILITERS

You might use MILLILITERS to measure small volumes of liquids such as:

liquid medicine | liquids for baking | personal drinking bottles | drinking glasses | liquids for science experiments

LITERS

u might use LITERS to measure large volumes of liquids such as:

DATE:

URING VOLUME

lliliters or liters

f measurement you would use to measure the volume of

milliliters
liters

NAME: DATE:

MEASURING MASS

grams or kilograms

ctions: Cut out the shapes below. Decide whether you would measure each object's mass in ms or kilograms, and place in the correct column.

GRAMS | KILOGRAMS

MEASURING MASS

grams or kilograms

Directions: Decide which unit of measurement you would use to measure the mass of each object. Drag your answer into the rectangle.

1 grams kilograms

2 grams kilograms

3 grams kilograms

4 grams kilograms

= 400 grams

= 600 grams

1,000 grams = 1 kilogr

DATE:
MEASURING VOLUME
milliliters or liter
Decide which unit of measurement you would use t
le your answer:
milliliters
liters
NAME:
MEASURING VOLUME
estimating volume
Directions: Each ite
accurate for each i
Styling gel
DATE:
MEASURING MASS
NAME:
Directions: Cut out the sh
grams or kilograms, and F
GRA
measuring
MASS
What is mass?
mass is the am
of matter in an o
Mass can be measured using different units, includin
GRAMS
= 1 gram
= 5 grams
= 25 grams
= 100 grams
= 400 grams
= 600 grams
1,000 grams = 1 kilogram
KILOGR
What is volume?
Volume can be measure
MIL
You might use MILLILITERS to mea
liquid medicine
liquids for baking
You might use LITERS to mea
large bottles of drinks
swimming pools
bathtubs
buckets of paint
1,000 milliliters = 1 liter

NAME: DATE:
MEASURING MASS
grams or kilograms
Directions: Cut out the shapes below. Decide whether you would measure each object's mass in grams or kilograms, and place in the correct column.
GRAMS
KILOGRAMS
MEASURING MASS
story problems
Directions: Solve the following story problem involving mass. Use the textbox to show your work.
4 Mr. and Mrs. Scheller are going on a trip. Mr. Scheller's suitcase weighs 22 kilograms, and Mrs. Scheller's suitcase weighs 19 kilograms. How much do their suitcases weigh altogether?
Answer:
MILLILITERS
LITERS
personal drinking bottles
drinking glasses
bathtubs
buckets of paint
MEASURING VOLUME
milliliters or liters
Directions: Decide which unit of measurement you would use to measure the volume of each object. Circle your answer.
milliliters
liters
5 milliliters
5 liters
4 milliliters
4 liters
350 milliliters
35 liters
1,000 milliliters
1,000 liters
400 milliliters
4 liters

MEASURING MASS & VOLUME

3rd grade

Table of Contents

1. Anchor Charts (2 pages)
2. Measuring Mass: Grams vs. Kilograms (2 pages)
3. Measuring Mass: Estimating Mass (5 pages)
4. Measuring Mass: Story Problems (4 pages)
5. Measuring Volume: Milliliters vs. Liters (2 pages)
6. Measuring Volume: Estimating Volume (3 pages)
7. Measuring Volume: Reading and Calculating Volume (5 pages)
8. Measuring Volume: Story Problems (4 pages)
9. Test Review (7 pages)
10. Test (7 pages)

Thank you for purchasing this Common Core Kingdom digital resource!

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

* You MUST have a Google account in order to access this resource. Click HERE if you need help setting up a Google account.

measuring

MASS

What is mass?

mass is the amount of matter in an object

Mass can be measured using different units, including:

GRAMS

= 1 gram

= 5 grams

= 25 grams

= 100 grams

= 400 grams

= 600 grams

KILOGRAMS

= 1 kilogram

= 5 kilograms

= 10 kilograms

= 50 kilograms

= 100 kilograms

= 500 kilograms

1,000 grams = 1 kilogram

©Julie Bochese

measuring VOLUME

What is volume?

volume is the amount of space an object takes up

Volume can be measured using different units, including:

MILLILITERS

You might use MILLILITERS to measure small volumes of liquids such as:

liquid medicine

liquids for baking

personal drinking bottles

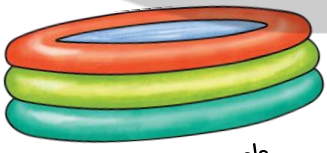
drinking glasses

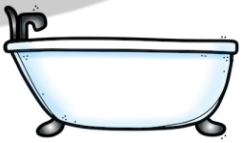
liquids for science experiments

LITERS

You might use LITERS to measure large volumes of liquids such as:

large bottles of drinks


swimming pools


bathtubs

buckets of paint

1,000 milliliters = 1 liter

©Julie Bochese

NAME: _____ DATE: _____

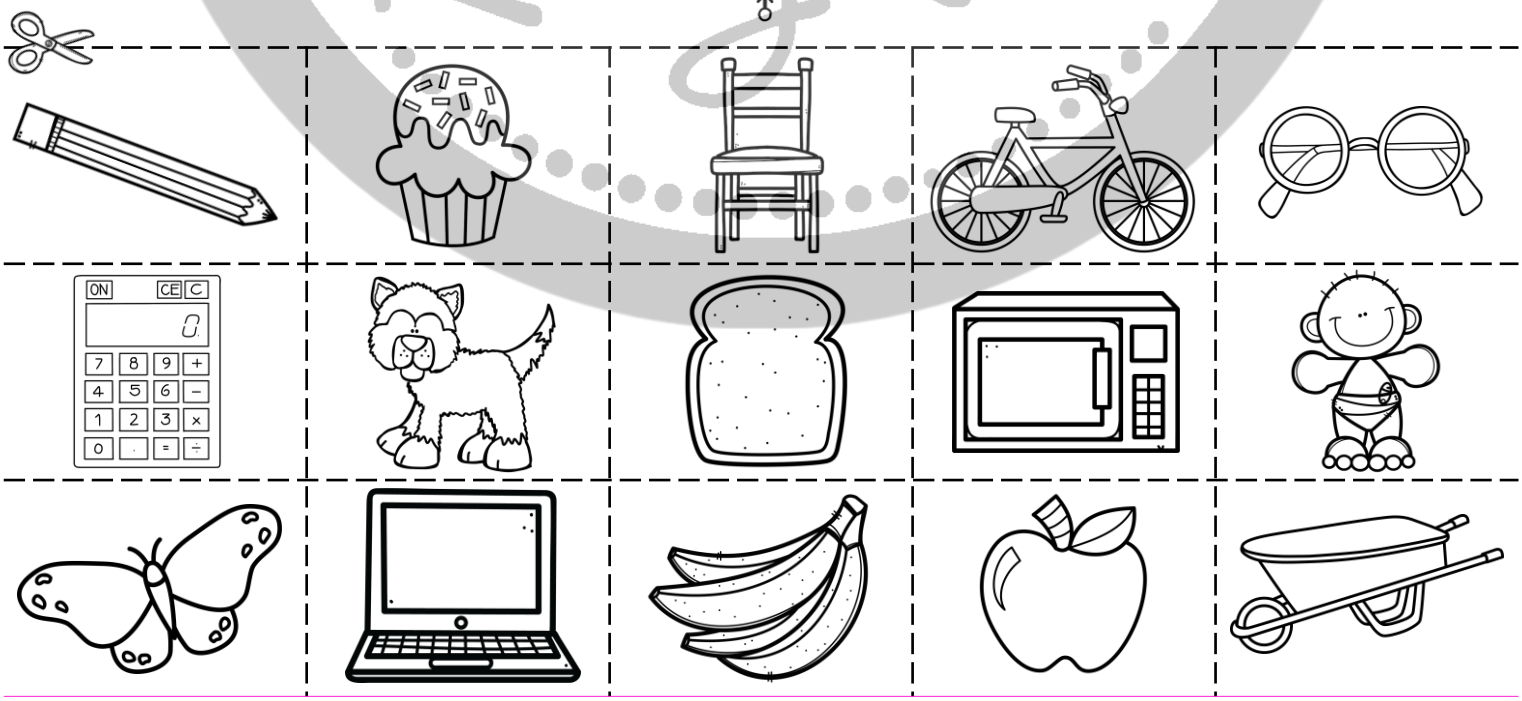
©Julie Bochese

MEASURING MASS

grams or kilograms

Directions: Cut out the shapes below. Decide whether you would measure each object's mass in grams or kilograms, and place in the correct column.

GRAMS	KILOGRAMS



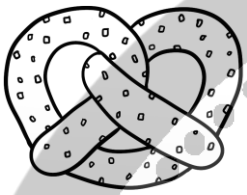
Common CORE Kingdom

NAME: _____ DATE: _____

MEASURING MASS

grams or kilograms

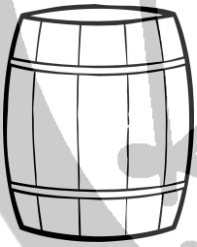
Directions: Decide which unit of measurement you would use to measure the mass of each object. Circle your answer.

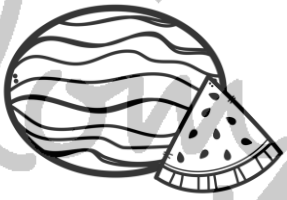
1. 
   grams
   kilograms

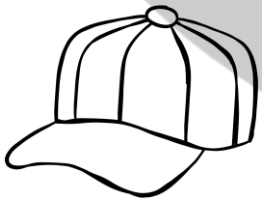
2.
   grams
   kilograms

3.
   grams
   kilograms

4.
   grams
   kilograms

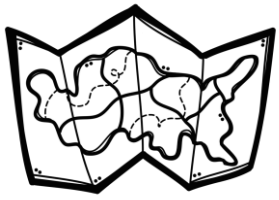
5. 
   grams
   kilograms

6. 
   grams
   kilograms

7. 
   grams
   kilograms

8.
   grams
   kilograms

9.
   grams
   kilograms

10. 
    grams
    kilograms

©Julie Bochese

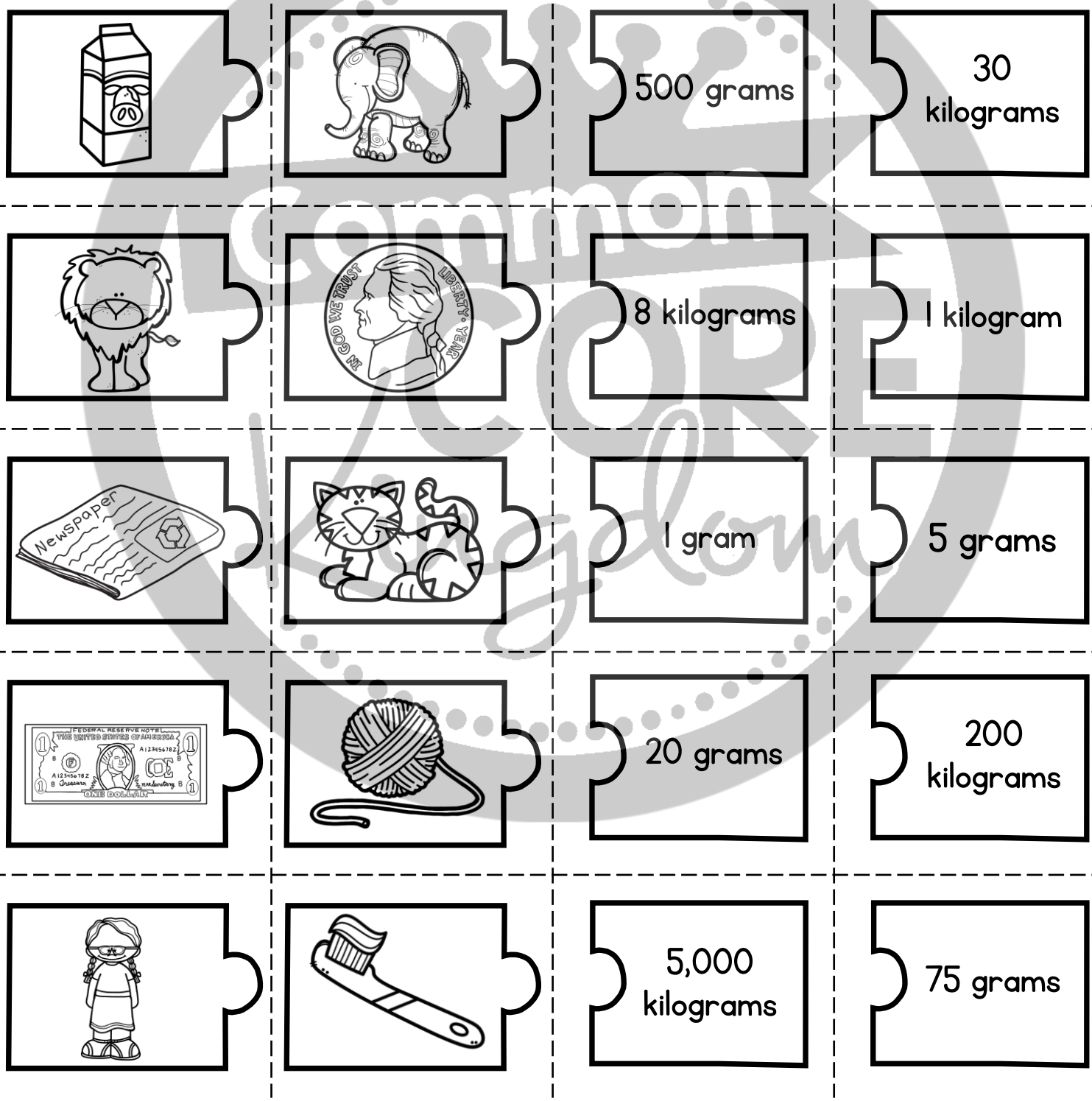
NAME: _____ DATE: _____

©Julie Bochese

MEASURING MASS

mass puzzles

Directions: Cut out the puzzle pieces. Assemble the puzzles by fitting together two pieces: one item and its corresponding mass.



NAME: _____ DATE: _____

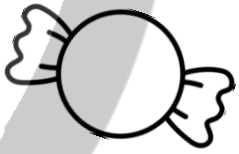
MEASURING MASS

story problems

Directions: Solve the following story problems involving mass. Show your work.

1. Christopher's math book weighs 950 grams. His language arts book weighs 810 grams. How much more does his math book weigh than his language arts book?

2. In a bag of candy, each piece of candy weighs 12 grams. If there are 9 pieces of candy in the bag, how much does the candy weigh altogether?



Common CORE Kingdom

©Julie Bochese

NAME: _____ DATE: _____

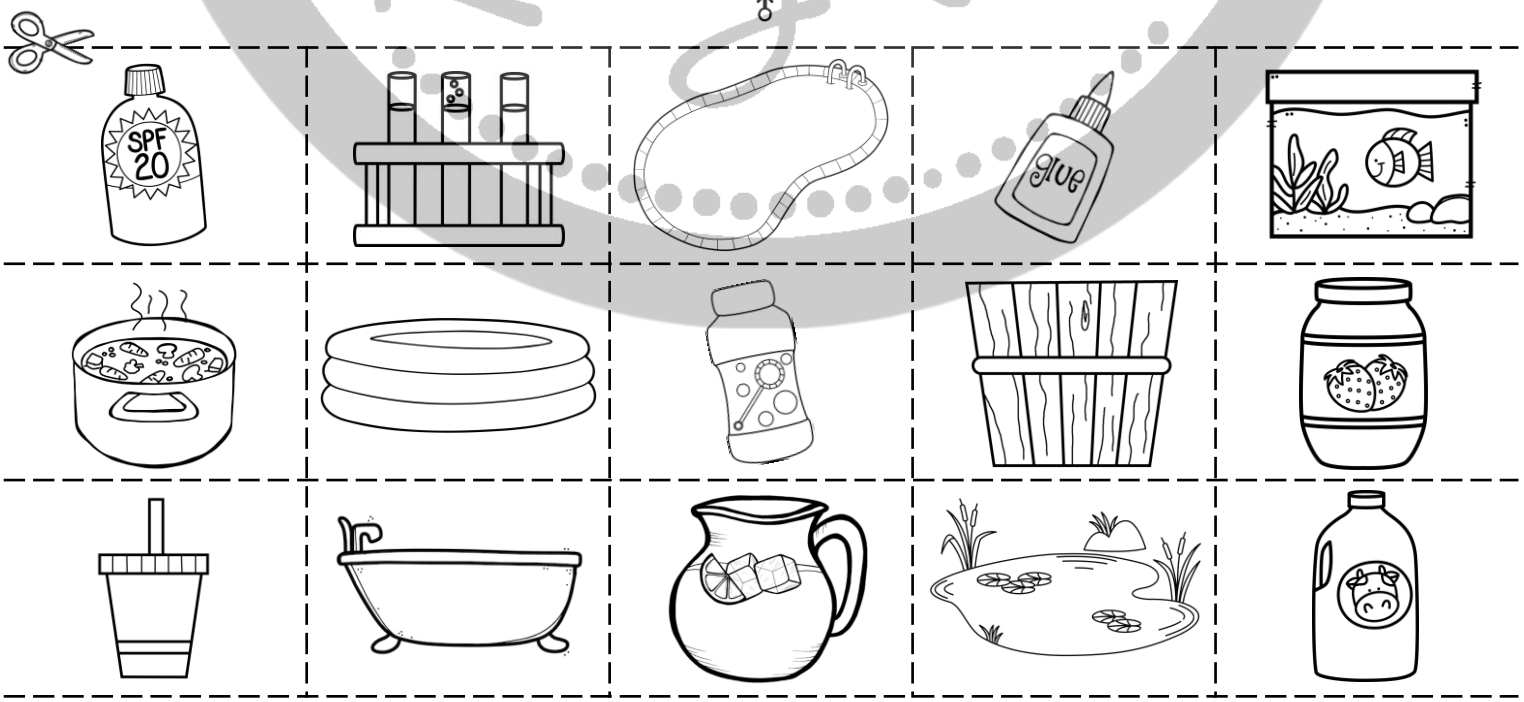
©Julie Bochese

MEASURING VOLUME

milliliters or liters

Directions: Cut out the shapes below. Decide whether you would measure each object's volume in milliliters or liters, and place in the correct column.

MILLILITERS	LITERS



Common CORE Kingdom

NAME: _____ DATE: _____

MEASURING VOLUME

estimating volume

Directions: Each item has two possible volumes listed. Circle the volume that you think is more accurate for each item.

1 MILLILITER	1 LITER
one teaspoon	medium-sized carton of milk

1

75 milliliters

75 liters

2

3 milliliters

3 liters

3

6 milliliters

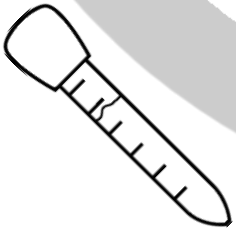
6 liters

4

350 milliliters

35 liters

5



5 milliliters

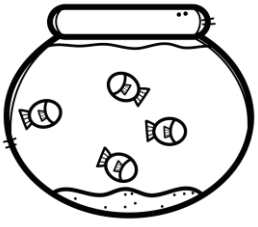
5 liters

6

1,000 milliliters

1,000 liters

7



4 milliliters

4 liters

8

400 milliliters

4 liters

©Julie Bochese

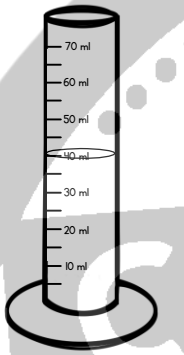
NAME: _____ DATE: _____

MEASURING VOLUME

graduated cylinders

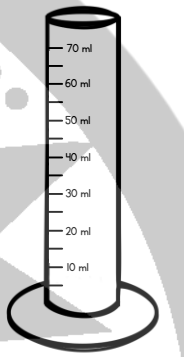
Directions: Arthur has graduated cylinders with different liquids, and he pours a certain amount out of each cylinder. Calculate how much liquid is left in each graduated cylinder. Write your answer and draw the volume on the new graduated cylinder.

1



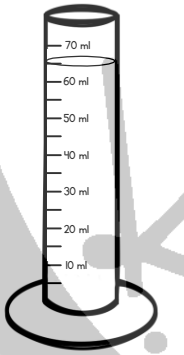
Volume

Arthur pours 16 mL out of the graduated cylinder. How much liquid is left?



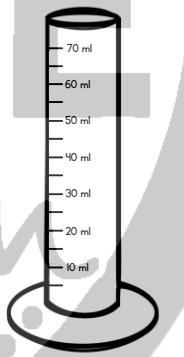
New volume

2



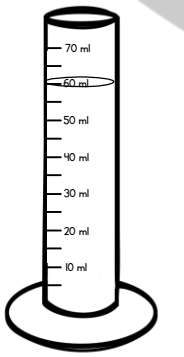
Volume

Arthur pours 33 mL out of the graduated cylinder. How much liquid is left?



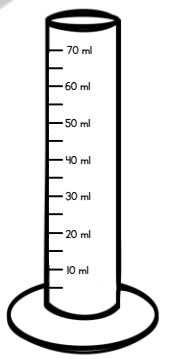
New volume

3



Volume

Arthur pours 48 mL out of the graduated cylinder. How much liquid is left?



New volume

©Julie Bochese

NAME: _____ DATE: _____

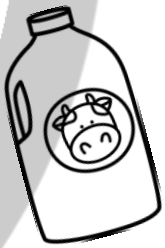
MEASURING VOLUME

story problems

Directions: Solve the following story problems involving volume. Show your work.

1. Hayang is baking cupcakes. She adds 230 milliliters of milk to the mixing bowl and then 75 milliliters of oil. How much more milk than oil did Hayang add?

2. Every week, Cristian's family drinks 6 liters of milk. How many liters of milk does his family drink in 4 weeks?



Common CORE Kingdom

©Julie Bochese

NAME: _____ DATE: _____

MEASURING MASS & VOLUME

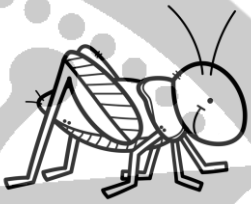
test review

Directions: Decide which unit of measurement you would use to measure the mass of each object. Circle your answer.

1.

grams

kilograms

2. 

grams

kilograms

3.

grams

kilograms

4.

grams

kilograms

Directions: Decide which unit of measurement you would use to measure the volume of each object. Circle your answer.

5.

milliliters

liters

6.

milliliters

liters

7.

milliliters

liters

8.

milliliters

liters

Common Core Kingdom

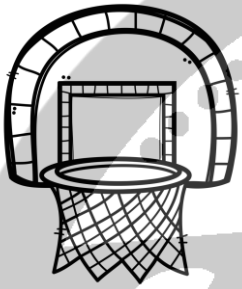
©Julie Bochese

NAME: _____ DATE: _____

MEASURING MASS & VOLUME

test

Directions: Decide which unit of measurement you would use to measure the mass of each object. Circle your answer.

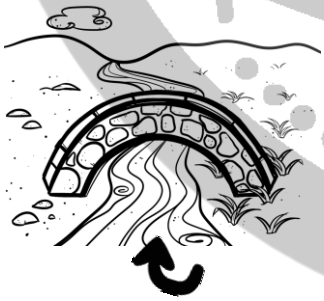
1. 
   grams
   kilograms

2.
   grams
   kilograms

3.
   grams
   kilograms

4.
   grams
   kilograms

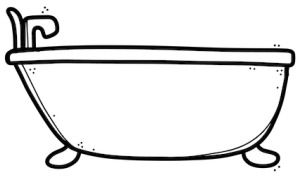
Directions: Decide which unit of measurement you would use to measure the volume of each object. Circle your answer.

5. 
   milliliters
   liters

6.

   milliliters
   liters

7.
   milliliters
   liters

8. 
   milliliters
   liters

©Julie Bochese

Terms of Use

How Can I Use This Product?

Thank you for your purchase! My 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 access them by visiting your TPT "Purchases" page and then selecting "Download Additional Licenses" or by contacting julie@commoncorekingdom.com.

Good to Go:

- Use this product personally.
- Use this product in your own classroom.
- Provide to your students to use at your instruction.
- Print and/or copy for use in your classroom.
- Provide print version(s) of specific pages within the product to a substitute teacher with the sole purpose of instructing your students.
- Review this product with others with the sole purpose of recommending the product, provided you include the link below:

Not O.K.

- Give to others to use personally.
- Give to others to use in another classroom.
- Give to parents to use with their children outside of your lessons.
- Print or copy this item to share with other teachers or other classrooms.
- Publish or host online in any manner, including personal, classroom, or district websites.
- Publish, sell, or otherwise disseminate the product to anyone.

© Copyright 2020. All rights reserved. Permission is granted to copy pages specifically designed for student or teacher use by the original purchaser or licensee. The reproduction of any other part of this product is strictly prohibited. Copying any part of this product and placing it on the Internet in any form (even a personal/classroom website) is strictly forbidden. Posting without permission is a violation of the Digital Millennium Copyright Act (DMCA).

Let's Connect!

www.commoncorekingdom.com

https://www.teacherspayteachers.com/Store/Common-Core-Kingdom

https://www.facebook.com/CommonCoreKingdom/

https://www.instagram.com/commoncorekingdom

https://www.pinterest.com/cckingdom/pins/

Julie@commoncorekingdom.com

Looking for more?

Membership Opportunity!

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

[Join my Core Kingdom Club waitlist!]

Core Kingdom 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 commoncorekingdom.com/membership.

Credits

http://www.teacherspayteachers.com/Store/Lita-Lita