

IMAGINE A DAY WITHOUT A MATER

Student Activity Book





DISCUSS & BRAINSTORM

WHAT WOULD A DAY WITHOUT WATER LOOK LIKE?

If we woke up today and nothing came out of the tap, how would you feel? Our daily routines consist of using water from the moment we wake up to the time we get ready for bed. Some people in America and other parts of the world, unfortunately do not easily have access to water. Storms, droughts, or failing pipes and facilities that provide water to communities can stop working leaving many without access to clean and safe drinking water.





IMAGINE A DAY WITHOUT WATER

Imagine a Day Without Water is a National Day of Action to unite communities and people who can make changes in our water laws reminding them that clean and safe drinking water and sanitation services should be available to everyone. Today we *Celebrate Water* by learning about this important day and taking action to let others know how precious water is.



BRAINSTORM

Ask your teacher if you could find a partner and share with each other what your day would be like if water was not available. Using the graphic organizer on the next page, write down the ideas you and your partner discussed and found the most important. Some examples of A Day Without Water would be, not being able to flush the toilet, or brush our teeth. What else can you and your partner think of?



NAME:		DATE:	
	IMAGIN WITH	PIC E A DAY HOUT TER	



SOLVE & EXPERIMENT

THE CASE OF THE DISAPPEARING WATER

You are the detective in this case!

Original concept of the story by Susan M. McMaster



You are called to the home of Mrs. Flowers. When you arrive on the scene, Mrs. Flowers' grown son, Frank Flowers, is frantic.

His mother is missing!

You ask Frank how long his mother has been missing. "That's just it, " Frank says. "I've been traveling a lot and kept forgetting to phone her. Now I feel terrible. I have no idea where she is or how long she's been missing."

"Do you know of some places where she might have gone?" you ask. Frank wrinkles his brow and thinks hard. "Well," he says, "her habits are very predictable. If she has been gone less than a day, she probably went shopping.



If she's been gone for less than three days, she may be visiting one of her sisters. She would never visit anyone for more than three days."



"If she's been gone more than three days, but less than seven," continues Frank, "she's probably taking a vacation on a cruise ship. I'm sure she can't afford more than a seven-day cruise.

If she's been gone more than seven days, but less than six weeks, she's probably received the grant that she applied for. She wants to study art in Europe.



If she's been gone more than six weeks, she is probably at her mountain cabin. However, she never stays there more than two months.



If she's been gone longer than two months, aliens must have captured her and taken her to another galaxy. She loves her plants and her home. She would never stay away longer than two months for any reason."



"I think I can help you solve this mystery," you say while looking around the house.

"Did you find a note?" asks Frank hopefully. "No," you say, "but I did find this glass measuring cup in the window."

"Oh," says Frank, "that's nothing. Mother is very particular. Every morning she fills the measuring cup to exactly one cup. Then she puts it in the window sill to warm in the sun for a little while before she waters her African Violets.

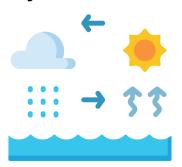


She is very careful about how much water she uses because she doesn't want to over-water or under-water the plants."

"Aha!" you shout. "Just as I suspected, this is precisely where we must begin our search. The measuring cup now has exactly 3/4 of a cup of water."

"Are you saying someone stole 1/4 of a cup of water?" asks Frank.

"No sir," you say, trying to keep a straight face. "It's a matter of **evaporation**. Ya' see, water evaporates to the atmosphere. The warmth of the sun changes the liquid into water vapor that we can't see. It's part of the **water cycle**."



"To make a long story short," you continue. "we're going to conduct an experiment. We'll put a cup of water in a sunny place and keep track of how long it takes to evaporate. Based on that experiment, we will estimate how long ago Mrs. Flowers left the measuring cup in the window sill."

"What a relief!" says Frank.

"What should I do now?"

"I suggest you water the plants," you reply...

NAME:	DATE:
-------	-------

THE CASE OF THE DISAPPEARING WATER

STEP 1

Read "The Case of the Disappearing Water."

STEP 2

Write down the facts of the case:

- 1. Original amount of water in the measuring cup
- 2. Amount of water in the measuring cup now

STEP 3

Write down where Frank Flowers said his mother might be:

1. If Mrs. Flowers has been gone for less than a day, she probably

STEP 3

- 2. If Mrs. Flowers has been gone for less than 3 days, she may be
- 3. If she's been gone for more than3 days but less than 7, she'sprobably
- 4. If she's been gone for more than 7 days but less than 6 weeks, she's probably
- 5. If she's been gone for more than 6 weeks but less than two months, she is
- 6. If she's been gone longer than two months,

ME:	DATE:	

THE CASE OF THE DISAPPEARING WATER



Develop a hypothesis.
Tell what you think will happen before you do the experiment.

- 1. How long do you think the water was left on the window sill?
- 2. Where do you think Mrs. Flowers went?



Perform an experiment to establish approximately how long it took for the water to evaporate.

MATERIALS NEEDED



ONE CUP LIQUID MEASURING CUP



WATER



SUNLIGHT



PENCIL



THE CASE OF THE DISAPPEARING WATER EXPERIMENT DATA SHEET

NAME:	DATE:
-------	-------



THE CASE OF THE DISAPPEARING WATER Experiment Data Sheet

STEP 5

	•			•			
D	ı	re	ct	1	0	n	c.
		\cdot			$\mathbf{\circ}$		J.

1. Write down today's date:		

- 2. Fill the measuring cup to the 1 cup line with water.
- 3. Put the cup in a sunny window.
- 4. Record how many days it takes for the water in the measuring cup to be at the three-fourths cup line. You may use the back of this sheet if needed.

STEP 6

Write your conclusions.

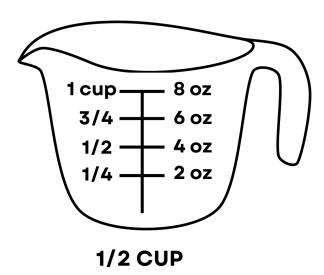
1. It took approximately	days for the water to evaporate.
2. Where should Frank begin lookin	g for Mrs. Flowers?

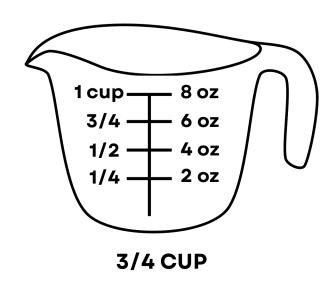
ME:	DATE:	

PRACTICE

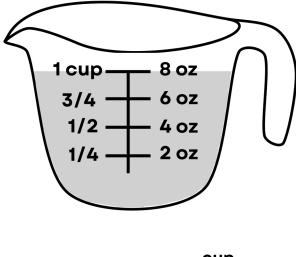
Using Measuring Cups

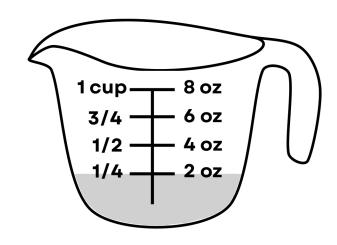
Instructions: Color the measuring cup up to the indicated amount.





Instructions: Write down the measurement of each measuring cup in cups and liquid ounces.









FALL ART CONTEST

HOW TO PARTICIPATE:

1

Have your teacher sign-up for the art contest!

2

Read "The Case of the Disappearing Water"



Complete Steps 1 - 6 of the experiment.



Use your brainstorming sheet and the art contest sketch page to begin your preliminary drawing.



Begin working on your final art piece for the contest. Make sure to add color, details, and contrast.





The top 3 winners (1st, 2nd, and 3rd place) AND their sponsoring teachers will receive a SPECIAL PRIZE!

Winners and Honorable Mentions will be recognized in an online award celebration!





NAME:	DATE:
ART CONTES	ST SKETCH PAGE
Art Contest Prompt: Imagine what A Day below of what we would miss if we didn't	that creative brain of yours! y Without Water would look like. Draw a sketch thave water. Use your brainstorming sheet to your sketch and written a description, ask your y your final art entry for the art contest!

Use this space to write down a brief desc	cription of your picture.



