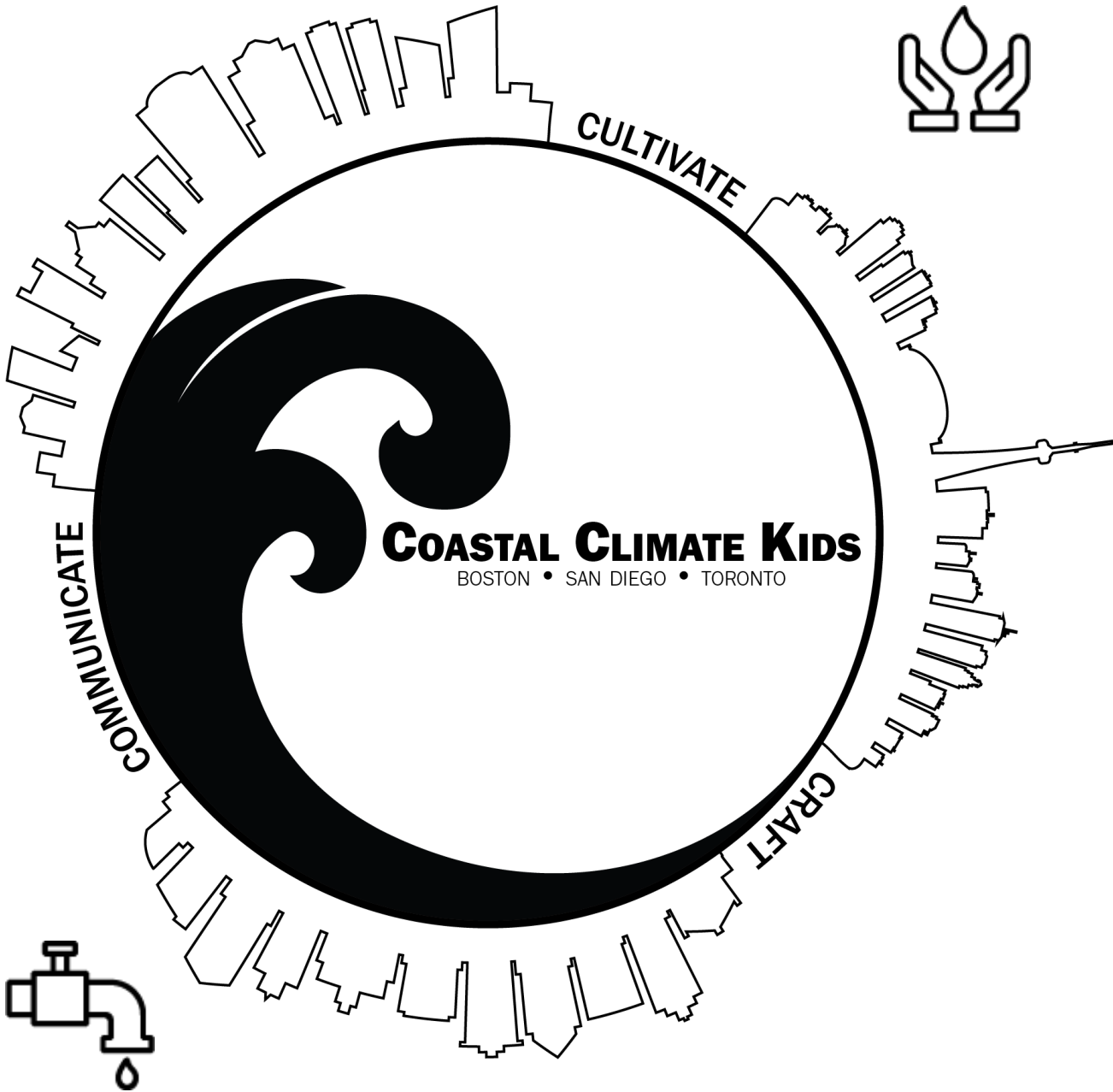


COASTAL CLIMATE KIT 2: WINTER



WELCOME TO WINTER!

Welcome to Winter, Coastal Climate Kids!

We are so excited for you to continue exploring your coastal community. This winter, you will consider your relationship to water in your local area. Have you ever noticed all the ways you use water or how water (in all its forms!) influences how you dress or move? Have you explored how water shapes the land? Or, why all plants and animals need water? These are the kinds of questions we hope you'll think about this winter!

This winter, you will have the chance to read two books, do a water curiosity walk, track the weather, and craft with watercolors. You will also have an opportunity to explore what other Coastal Climate Kids in Boston, San Diego, and Toronto noticed in their ecosystems in the fall! Like with the Autumn Kit, we ask that you a couple of activities to us by February 15th to ensure you are sent a Spring Kit! And when you return your kit, we will share them with our local community and the world at www.coastalclimatekids.com.

SAFETY TIPS

- Complete this project with a trusted adult (they can observe and craft, too!).
- Avoid touching anything that might be poisonous, sharp, dangerous, or items you are unsure about.
- Check the weather! Dress appropriately.
- Pay attention to signs at parks, trails, and beaches.
- Whenever possible, return natural materials to where you found them.



LIVING IN RELATION

Knowing more about the history of where we are located is an important part of coming to know our local ecosystem and better understanding how we live in relation to it. To do so, we must also understand that people have lived in Boston, San Diego, and Toronto since long before these areas were colonized by Europeans who treated Indigenous peoples and their traditional lands and waters as if they did not matter. Relatives of the Indigenous peoples who first inhabited and cared for the lands and waters where our cities now stand still live in these areas today. Some of you may even be their descendants!

The Indigenous peoples in our regions have long-rooted relationships within these coastal communities. Many important geographic landmarks' and waterways' names come from Indigenous languages that are specific to the peoples who cared for the lands and waters in what we now know as Boston, San Diego, and Toronto. As a Coastal Climate Kid, we encourage you to express thanks for the land on which we live and play, and to the Indigenous peoples who have cared for the land before us, and make sure you think about their families and communities as you do these activities!

CURIOSITY WALK

Time Estimate: 40 min.

Water is easy to see in the Pacific Ocean, Boston Harbor, and Lake Ontario, but water moves in other ways, too. In Boston and Toronto, water takes shape as snow, and in all three coastal cities, we experience water as rain. In this task, we want you to consider how water is always moving. As it moves across the world, how else does water take shape? How is it stored, used, or wasted by humans, plants, and animals?

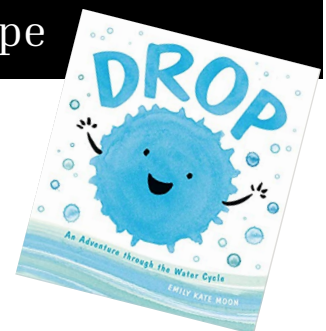
Step 1: Read Drop: An Adventure Through the Water Cycle

Today, we are going to pay attention to what water is and how it shapes our community!

First, read Drop: An Adventure Through the Water Cycle by Emily Kate Moon to learn more about how water moves throughout nature.

Materials

- your senses!
- InstaPix Camera
- Drop by E.K. Moon
- tape



Step 2: Take a Walk or Look Out a Window

With a trusted adult, dress for the weather, and go on a winter curiosity walk. If it is too cold to go outside, do a curiosity observation and look out your window instead!

Observe and Share!

- Where do you notice water on your walk? Can you see it in different forms? Do you think it could be hiding in places like plants or in the sky? Take one picture of water on your curiosity walk.
- Can you find evidence that water has impacted the ecosystem or landform that you are exploring? Maybe it has shaped the land, impacted the way plants grow in your neighborhood, or transformed the types of organisms that live there! Take one picture that represents how water has shaped/impacted your ecosystem!

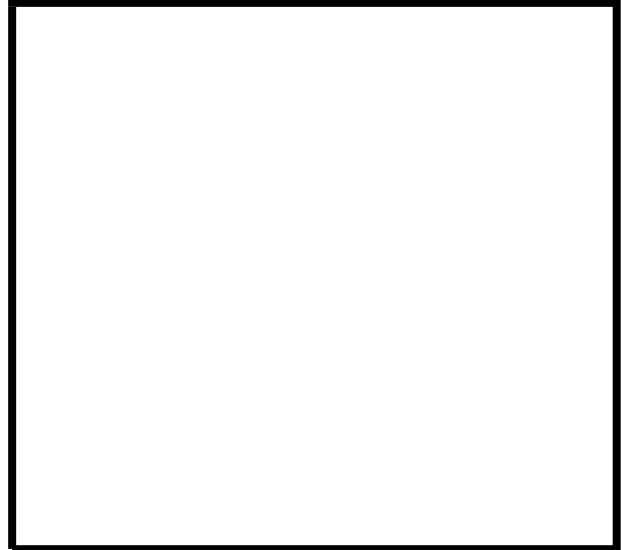
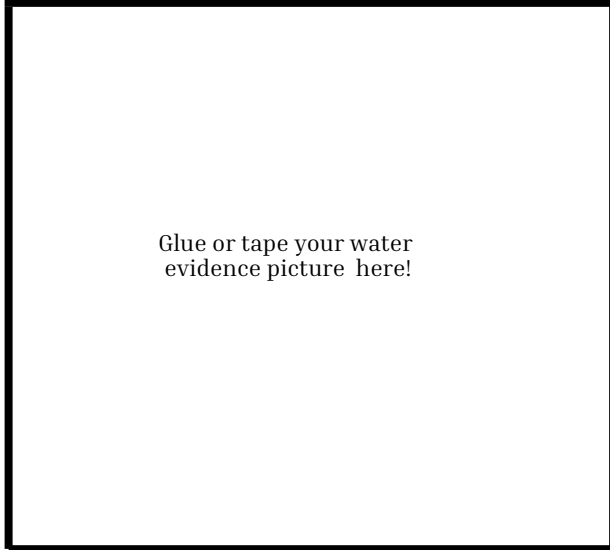
Step 3: On the next page, attach and caption your two water photos.

Name _____

City _____

Water on My Walk Picture

Caption it! Describe why you took this photo, or what it shows about water.



Water's Impact on my Ecosystems Picture

Caption it! Describe why you took this photo, or what it shows about water.



DROP IN YOUR CITY

Time Estimate: 30 min.

Across ecosystems, water appears in numerous ways. On your curiosity walk, you noticed the different states of water in your community and considered how water takes shape or its color. Did you observe any details that you had not seen before?

Materials

- watercolors
- paper
- black pen
- dropper

Using the watercolors and paper provided, craft an image of how Drop appears in your community. You may wish to paint a single picture, or, like author Emily Kate Moon, you may wish to illustrate Drop on the move!

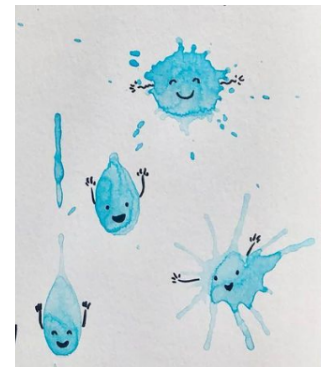
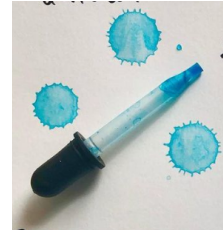


On the next page, we offer step-by-step instructions from author and illustrator Emily Kate Moon, but you may also scan the QR code at above to see how she created Drop herself!

Step 1: Illustrate Drop in Your City

Adapted from Emily Kate Moon's Instagram (@emilykatemoon.books)

1. Using the dropper, drop a few drops of water into the blue watercolor pot.
2. Using the dropper, drop individual blue drops onto the watercolor paper.
3. Tilt your paper, drop one drop on top of the other, blow on your drops!
There are all sorts of ways to change the shapes of each one!
4. Using the black gel pen, draw a face and arms (once the drop is dried!).
Now you have illustrated Drop!



Looking for another example? Check out Emily Kate Moon's Instagram for more tips & ideas using these two QR codes!



Step 2: Communicate

1. After trying your hand at making Drop, craft an illustration to share showing Drop in your community.
2. Write your name on the illustration, and complete the artist's statement.
3. Attach the illustration to the back of the artist statement for Drop in My City. (If you want to keep the illustration, you may photograph it instead!)

Drop in My City Artist Statement

Artist : _____

Art title: _____

Two things my "Drop" illustration highlights about my coastal community are:

1.

2.

One thing I wonder about water in my city is:

OBSERVE AND RECORD THE WEATHER!

Time Estimate: 10 min. per day for 5 days

Weather—including the outside temperature—impacts and is impacted by the bodies of water in our communities. On the next page, check out the similarities and differences across our three coastal communities' 2022 January temperatures. Then, using the thermometer and the chart in this booklet, track the weather in your community over 5 days.

Materials

- thermometer
- black pen

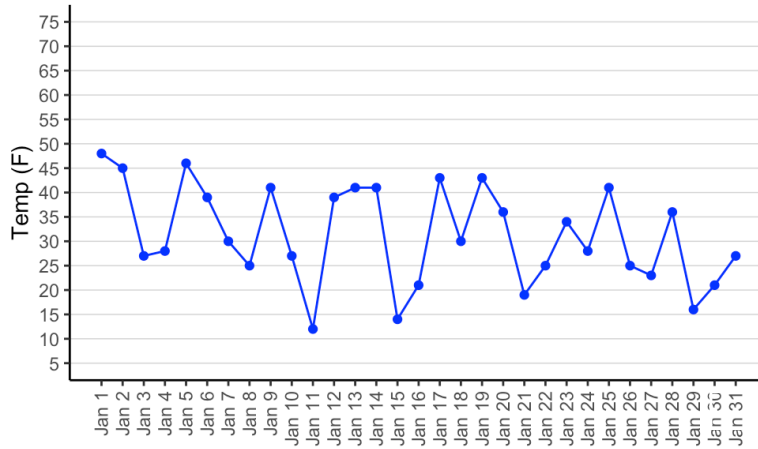
Did you know...?

- The last time there was measurable snowfall in San Diego was 1967. It was only the second recorded time there was measurable snow in recent history.
- The snowfall record for Boston is 27.6 inches, or 70.1 centimeters, in 2003, beating Toronto's record of 22.5 inches, 57.2 centimeters.
- The annual precipitation in San Diego is less than 12 inches, or 30.5 centimeters, resulting in a dry, borderline arid climate.

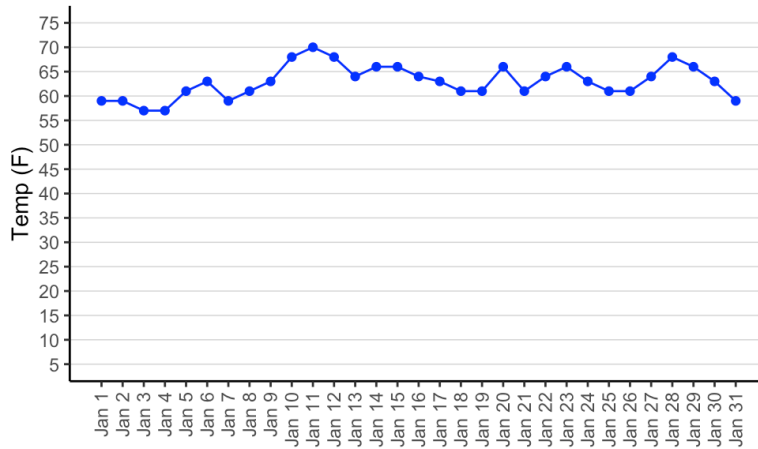


Temperature in Fahrenheit

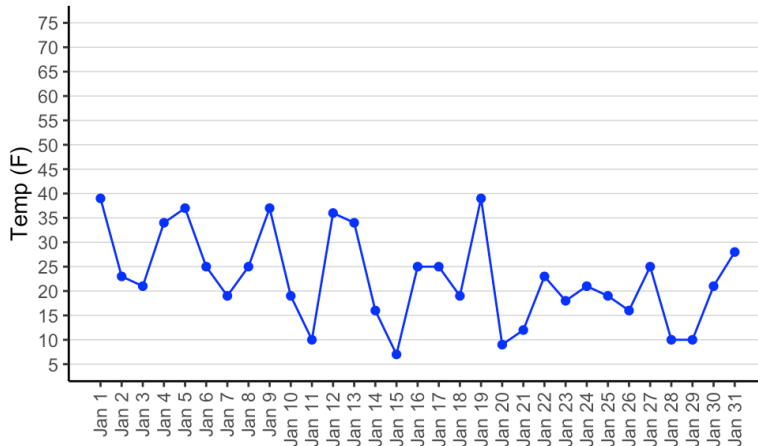
Boston, January 2022: Daily Temperatures



San Diego, January 2022: Daily Temperatures

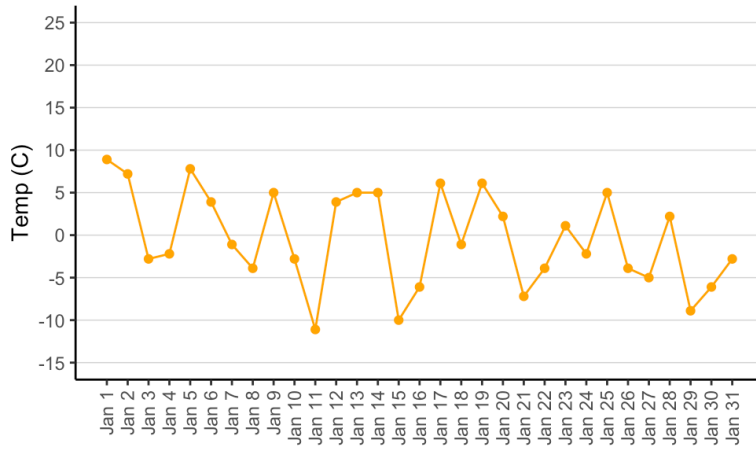


Toronto, January 2022: Daily Temperatures

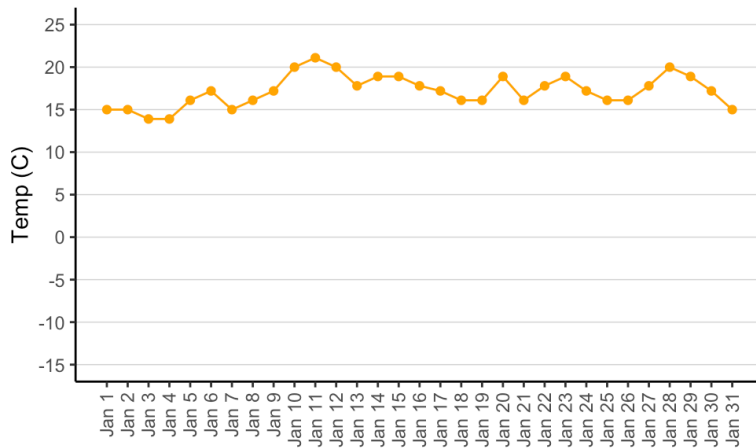


Temperature in Celsius

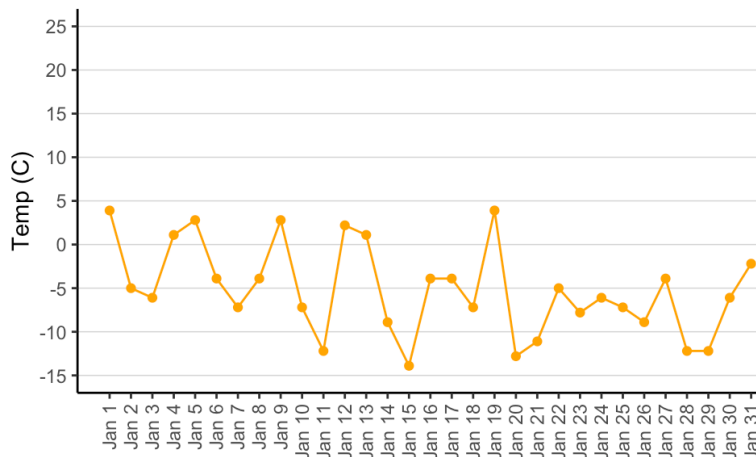
Boston, January 2022: Daily Temperatures



San Diego, January 2022: Daily Temperatures



Toronto, January 2022: Daily Temperatures



WEATHER RECORDING

Time Estimate: 10 min. per day for 5 days

As a Coastal Climate Kid Collective, we want to record the weather across our three cities this winter. Choose 5 days to record the weather and complete the weather chart below!

Date of Weather Recording	Temperature: Use your thermometer to record the temperature	Precipitation: Did water fall from the sky? In what form (snow, rain, sleet, hail? How much?

Name _____

City _____

Once you have recorded the weather for 5 days, complete this analysis about your weather recording.

<p>What did you notice about the weather?</p>	
<p>What did you wonder about the weather?</p>	
<p>How do you think weather in Boston, Toronto and San Diego might be similar and/or different?</p>	

THE MESS THAT WE MADE

COASTAL CALL TO ACTION ART

Optional Activity: Time Estimate: 35 min.

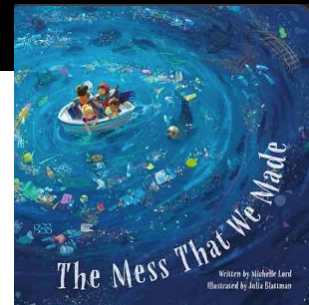
Author Michelle Lord and illustrator Julia Blattman's book *The Mess That We Made* not only inspired us to think about how humans impact and are impacted by the health of our waterways, but, on the final pages of their book, they share many calls to action related to ocean pollution. In this task, we challenge you to craft your own call to action! Using what you heard in the book and what you noticed on your water curiosity walk, craft a coastal call to action for your local community.

Step 1: Read *The Mess that We Made*

As you read, pay attention to what you notice, wonder, and learn. Reflect about how the book inspires you through words and illustrations to take care of the water in your local coastal community and across the world.

Materials

- The Mess that We Made* book
- paper
- watercolors
- black pen
- tape

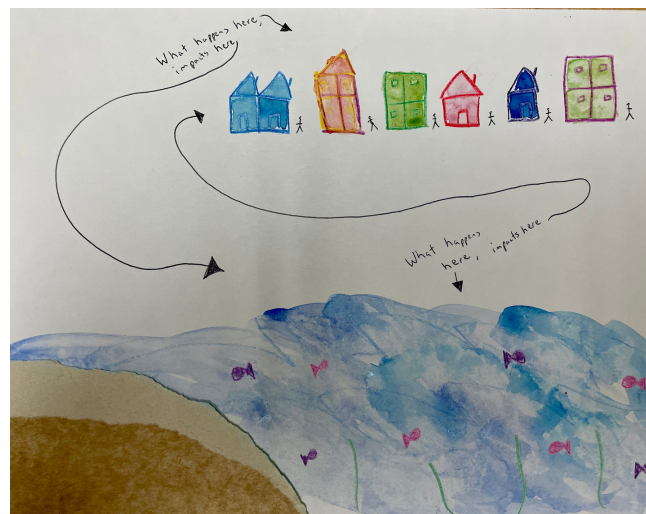
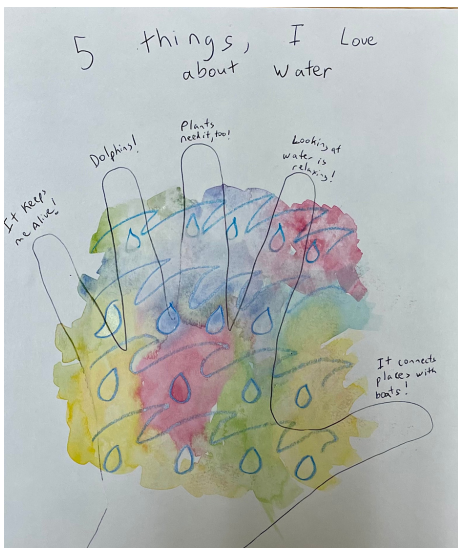


Step 2: Create a Coastal Call to Action Art

Using watercolor paper, illustrate a call to action to add to the book that answers one of these prompts:

- Why do you care about water in our lakes and oceans?
- What can you and other kids do to take care of water?
- What do you want adults to know and do to take care of water?
- Illustrate any other inspiration you have based on the book and your relationship with bodies of water.

Examples of Coastal Call To Action Art



Tips: Go ahead and use the watercolors, black pen, and tape from this kit, or combine them with the crayons, pencil, and glue from the Autumn kit. Think about reusing things you can find around your house that often are thrown away after one use, like plastic cups, shopping bags, or “junk mail”.

Step 3: Write your artist statement on the next page

The Mess That We Made a Coastal Call to Action Artist Statement

Artist: _____

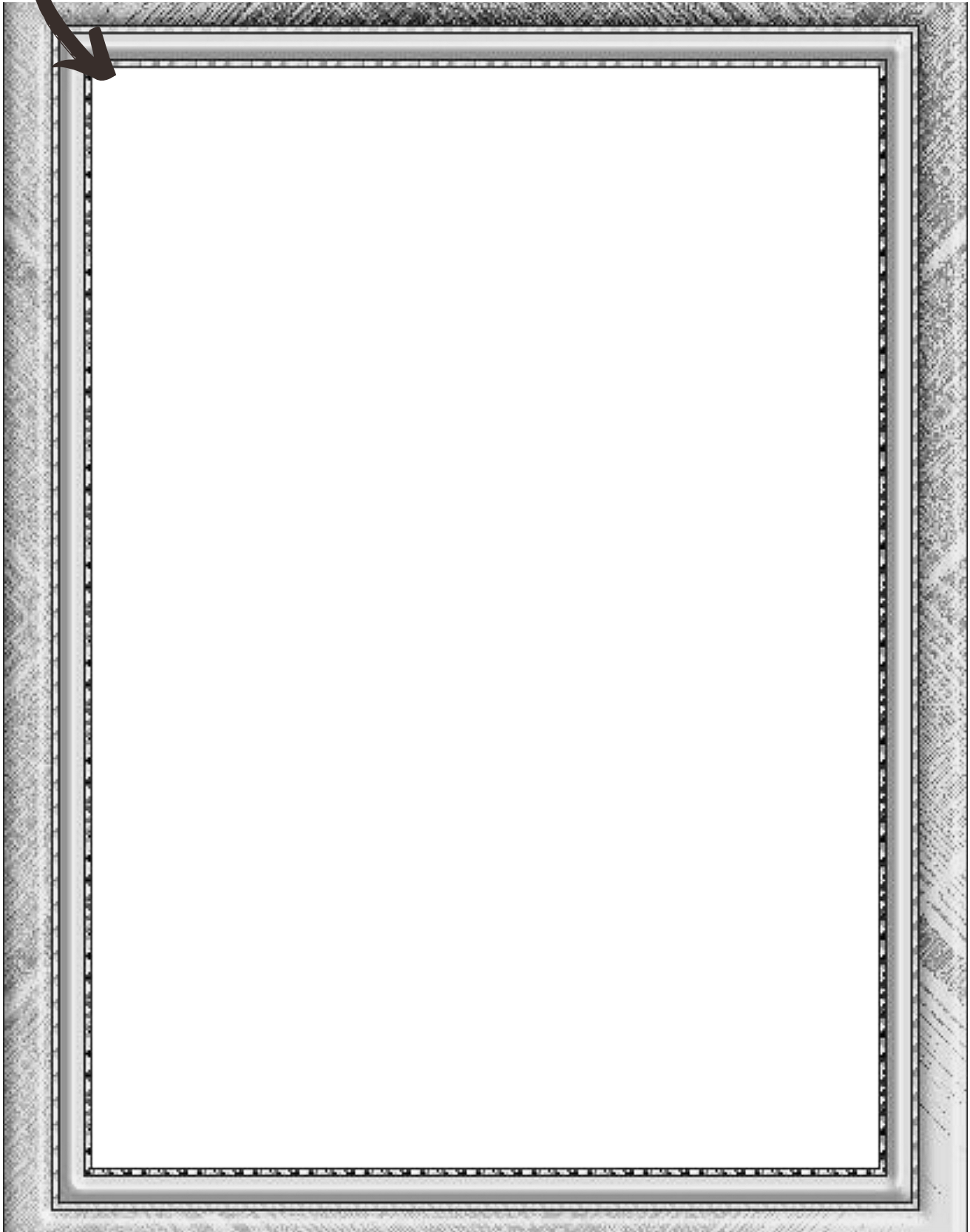
Title of Art: _____

The message I am sharing about water with my illustration is:

With whom do you want to share your message about water?

Why?

Place your watercolor (or a photo of it) here!



CROSS-COASTAL COMMUNITY SHOWCASE

Optional Activity: Time Estimate: 35 min.




Kid ecologists in Boston, San Diego, and Toronto created awesome Nature-Based Selfies using natural materials from their coastal communities as part of the Autumn Kit!

Have you seen your own nature-based selfie online yet? Have you noticed any differences between yours and those of kid ecologists in other coastal communities? If not, take a look at them online by visiting our website!

www.CoastalClimateKids.com/autumn-crafts

After you review the many nature-based selfies of our kid ecologists, use the table on the next page to share about differences and similarities you noticed across kid ecologists' nature-based selfies in our three coastal communities.

COMPARING NATURE-BASED SELFIES FROM ACROSS OUR CITIES

City	Boston	Toronto	San Diego
<p>I noticed these things about the selfies:</p> 			
<p>One similarity I noticed across the three cities was: ✓</p>			
<p>One question that I have is:</p> 			
<p>I am inspired to:</p> 			

RETURN CHECKLIST

	I added my two water photos and captions.
	I added my Drop in My City illustration.
	I added my completed artist statement for Drop in My City.
	I added my weather recording and analysis.
	<i>Optional:</i> I added my Coastal Call to to Action Art and Artist Statement
	<i>Optional:</i> I compared Nature-Based Selfies from different cities.
	Please return the envelope with the above items or upload them by
	I had fun!

Please return or upload materials by February 15th. Please note that the camera, film, picture books, and other supplies are yours to keep!

RETURN CHECKLIST

	I added my two water photos and captions.
	I added my Drop in My City illustration.
	I added my completed artist statement for Drop in My City.
	I added my weather recording and analysis.
	<i>Optional:</i> I added my Coastal Call to Action Art and Artist Statement
	<i>Optional:</i> I compared Nature-Based Selfies from different cities.
	Please return the envelope with the above items or upload them by
	I had fun!

Please return or upload materials by February 15th. Please note that the camera, film, picture books, and other supplies are yours to keep!

HOW TO RETURN YOUR KIT

If you picked up your kit at SCHOOL,
you can:

- RETURN it to your teacher, OR
- UPLOAD it using the RedCAP link emailed to your caretaker.

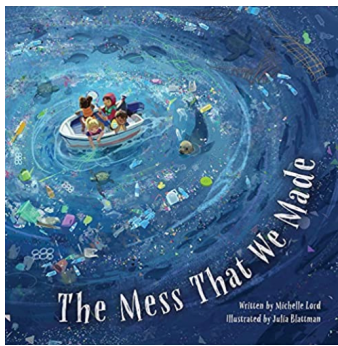
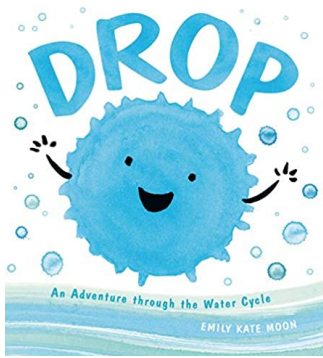
If you received your kit in the MAIL,
you can:

- MAIL it back to us in the prepaid envelope, OR
- UPLOAD it using the RedCAP link emailed to your caretaker.

Remember:

- To receive the NEXT kit, you will need to return the items we requested.
- Each time you return a kit, you will also receive a GIFT CARD with your next kit as a thank you!
- The camera that came with your first kit, film, picture books, and supplies are yours to keep!

WHAT'S IN YOUR KIT



Missing something?

Contact us at coastalclimatekids@gmail.com!

Curious how to use the camera?

We've made an unboxing video and tutorial for you! Access it using this QR Code:



SAVE THE DATE!

One of the most exciting parts of the Coastal Climate Kid Collective is that you will get the chance to meet other kid ecologists from Boston, San Diego, and Toronto through a cross-coastal event each season!

We hope you'll join us for our first event on:

FEBRUARY 27TH

7:00 PM ET / 4:00 PM PT

(hosted on Zoom)

One week ahead of our official meeting of the Coastal Climate Kid Collective, we will email details about how to join the meeting to your caretaker who registered you for our Collective online.

We can't wait to see you there!

TIPS & TRICKS FOR USING YOUR INSTAX MINI 11

While some of you may already be experts at using a camera like this, we wanted to share a few tips and tricks to help you get the perfect picture of your nature-based selfie for display on the web and at our end-of-year showcase!

- Follow all instructions in the manual included with your camera.
- Be careful not to expose the film to light.
- Be sure that the lens cap is fully open before you take a photo.
- Attach the black lanyard found in your kit to your camera (we found it easier to carry the camera on our neck than our wrist!)

Want to avoid
common mistakes?
Use a smartphone or
tablet to scan and learn
what NOT to do!

