

Ocean Plastics Education Kit

STUDENT WORKBOOK High School (Grades 9-12)



LESSON 2 How Plastics Travel to the Ocean

LESSON 3 Big or Small, Plastics Have a Huge Impact

LESSON 4 Plastics at the Wheel, Driving Plastics and Climate Change, Cleanup Your Shoreline for Through Ocean Currents

LESSON 1 THE HISTORY OF PLASTICS	LESSON 2 HOW PLASTICS TRAVEL TO THE OCEAN	LESSON 3 BIG OR SMALL, PLASTICS HAVE A HUGE IMPACT
LESSON 4 PLASTICS AT THE WHEEL, DRIVING THROUGH OCEAN CURRENTS	LESSON 5 PLASTICS AND CLIMATE CHANGE, A NEVER ENDING CYCLE	LESSON 6 CLEANUP YOUR SHORELINE FOR A CLEANER OCEAN

LESSON 5

a Never Ending Cycle

LESSON 6 a Cleaner Ocean







LESSON 2 How Plastics Travel to the Ocean

LESSON 3 Big or Small, Plastics Have a Huge Impact

LESSON 4 Plastics at the Wheel, Driving Through Ocean Currents



LAND ACKNOWLEDGEMENT

We acknowledge and are grateful that Ocean Wise employees live, work, and play on the traditional, ancestral and unceded territories of the x^wmə0k^wəyəm (Musqueam), Skwxwú7mesh (Squamish), and səlilwəta?4 (Tsleil-Waututh) peoples.



LESSON 5

Plastics and Climate Change, a Never Ending Cycle



LESSON 2 How Plastics Travel LESSON 3 Big or Small, Plastics Have a Huge Impact LESSON 4 Plastics at the Wheel, Drivir Through Ocean Currents

Lesson 1 The History Of Plastics



LESSON 5 Plastics and Climate Change, a Never Ending Cycle

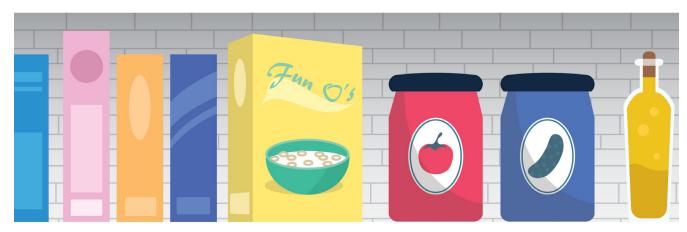


LESSON 2

LESSON 3

LESSON 4









a) Read Plastic: It's Not All The Same by Plastic Oceans.

b) Identify the polymers in the table below by their structure. List some of their chemical and physical properties which should include flammability, toxicity, reactivity, and oxidation state and density, color, hardness, melting point, and degradation time, respectively. Find plastic products or waste items in your surroundings composed of the identified polymers and list them in the table.

<u>Structure</u>	Polymer Name	<u>Physical</u> <u>Properties</u>	<u>Chemical</u> <u>Properties</u>	<u>Uses/Waste</u> <u>Items</u>
$-\left(CH_2 - CH_2\right)_n$				
$+CF_2 - CF_2 + CF_2$				

ŝ 圍 鬥 \bigcirc



LESSON 5



LESSON 2

LESSON 3

LESSON 4

2 After reading <u>Trade Goods of The Fur Trade by The Canadian Encyclopedia</u>, answer the questions below as it relates to the fur trade good you selected.

- a) Name of fur trade good:
- b) What benefits did this fur trade good provide to colonizers

c) Between which Indigenous group and colonizing nation did this trade take place?





LESSON 5



LESSON 2

LESSON 3

LESSON 4

- d) How did the material composition of this product change over time? How was it made by Indigenous peoples, and how is it made today?
- e) Why was there a change in the material used to make this good?

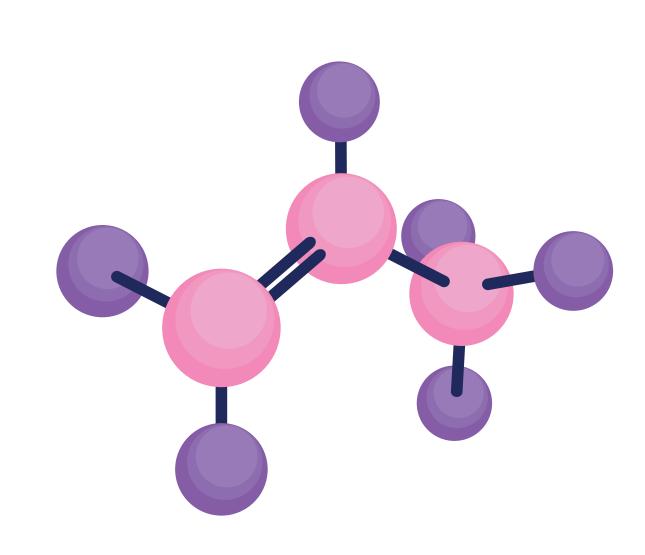


LESSON 5



LESSON 2 How Plastics Travel to the Ocean LESSON 3 Big or Small, Plastics Have a Huge Impact LESSON 4 Plastics at the Wheel, Drivin Through Ocean Currents

f) How does changing the way fur trade goods are made harm Indigenous culture and Traditional Ecological Knowledge?





LESSON 5

Plastics and Climate Change, a Never Ending Cycle



LESSON 2

LESSON 3

LESSON 4

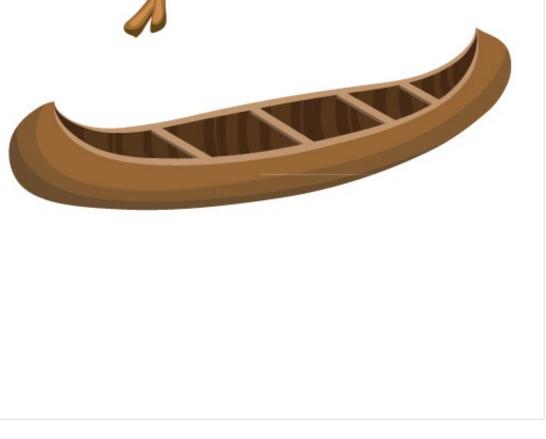


In this lesson, you have been introduced to plastic as a consumer good and how it has impacted society and the environment. Take a minute to reflect on what you learned, especially regarding the presence of plastics in our modern world.

REFLECT

1. What makes plastics such a unique and useful material?









LESSON 5



LESSON 2

LESSON 3

LESSON 4

2. Why have plastics become so prevalent in the world of consumer goods?

3. What makes plastics a threat to the environment and Indigenous culture?





LESSON 5



LESSON 2 How Plastics Travel to the Ocean **LESSON 3** Big or Small, Plastics Have a Huge Impact

LESSON 4 Plastics at the Wheel, Drivin Through Ocean Currents



Get the details and specifics about recycling collections in your area!

THE WHY?

Even though most plastics can only be recycled once, recycling can significantly reduce the number of raw materials extracted, energy consumed, and greenhouse gasses released during the production of synthetic polymers, just like the one you researched. By recycling plastic waste, you are allowing plastics to be used to their full potential and limiting the unnecessary production of plastic polymers by giving the existing ones a second life!





LESSON 5 Plastics and Cli

a Never Ending Cycle



OCEAN WISE | OCEAN PLASTICS STUDENT WORKBOOK

LESSON 1 The History of Plastics

1

LESSON 2 How Plastics Travel to the Ocean

Rox

LESSON 3 Big or Small, Plastics Have a Huge Impact

ESSON 4 Plastics at the Wheel, Drivin Through Ocean Currents

Lesson 2 How Plastics Travel to the Ocean

LESSON 5

Plastics and Climate Chang a Never Ending Cycle



LESSON 2 How Plastics Travel to the Ocean LESSON 3 Big or Small, Plastics Have a Huge Impact **LESSON 4** Plastics at the Wheel, Driving Through Ocean Currents





Compose a creative literary piece which tells the story of a piece of plastic becoming an ocean pollutant as it travels to the ocean. You can use any literary style including songs, poetry, short stories, plays, comic strips, etc. You should include one of the ways plastic travels to the ocean mentioned in <u>How Does Plastic End-Up in The Ocean by WWF</u>.





LESSON 5 Plastics and Climate Change, a Never Ending Cycle



LESSON 1	
The History of	Plastics

LESSON 2 How Plastics Travel to the Ocean LESSON 3 Big or Small, Plastics Have a Huge Impact **LESSON 4** Plastics at the Wheel, Drivi Through Ocean Currents





LESSON 5 Plastics and Climate Change, a Never Ending Cycle



LESSON 2 How Plastics Travel to the Ocean **LESSON 3** Big or Small, Plastics Have a Huge Impact LESSON 4 Plastics at the Wheel, Drivir Through Ocean Currents

2 Create a system prototype to help solve the plastic crisis and prevent plastics from entering our ocean. You should conduct research and refer to Traditional Ecological Knowledge concepts. Your prototype proposal should include an illustrated design and a descriptive paragraph. If completing this activity online, use a separate sheet of paper for the illustration.



LESSON 5

Plastics and Climate Change, a Never Ending Cycle



LESSON 2 How Plastics Travel to the Ocean LESSON 3 Big or Small, Plastics Have a Huge Impact LESSON 4 Plastics at the Wheel, Drivin Through Ocean Currents



From these activities and discussions, you discovered how plastics go from being a consumer good to an ocean pollutant by traveling to the sea. Take a moment to reflect on the ways that the plastic waste you produce can harm marine environments and coastal Indigenous communities.

REFLECT

1. How might a plastic bag, straw, or cup make its way from your school to the ocean?





LESSON 5

Plastics and Climate Change, a Never Ending Cycle



LESSON 2 How Plastics Travel to the Ocean

LESSON 3

LESSON 4

2. What are the different ways we can prevent plastic from reaching the ocean?

3. In what ways can Traditional Ecological Knowledge (TEK) be applied to better understand the impacts and solutions to the world's plastic problems?



LESSON 5



LESSON 2 How Plastics Travel to the Ocean LESSON 3 Big or Small, Plastics Have a Huge Impact **LESSON 4** Plastics at the Wheel, Drivin Through Ocean Currents



Watch <u>Take The Pledge by Ocean Wise</u> and visit <u>Be Plastic Wise</u> by Ocean Wise and take the pledge, whether it be individually or as a class. Go over the different steps on how to stay accountable in this challenge by <u>Reducing Your Plastic Footprint by Ocean Wise</u>.

THE WHY?

According to experts from the <u>Ocean Wise's Plastic Lab</u>, reducing your plastic footprint is the best way to help protect the ocean from plastic pollution. Removing plastic from the ocean and waterways is important, but if we keep consuming plastics, it will continuously enter the ocean and contribute to the never-ending cycle of ocean plastic pollution! Help to solve this issue by reducing the plastic you use, buy, and discard. Talk to someone you know about the pledge and see if you can inspire action in others around you.



LESSON 5 Plastics and Climate LESSON 6 Cleanup Your Shoreline fo a Cleaner Ocean

Ш



ki 🗊 즞 👘

LESSON 1 The History of Plastic LESSON 2 How Plastics Travel

LESSON 3 Big or Small, Plastics Have a Huge Impact **SSON 4** astics at the Wheel, Di

Lesson 3 Big or Small, Plastics Have a Huge Impact

LESSON 5

- Plastics and Climate Change,
- a Never Ending Cycle



LESSON 2 How Plastics Travel to the Ocean LESSON 3 Big or Small, Plastics Have a Huge Impact **LESSON 4** Plastics at the Wheel, Drivin Through Ocean Currents



a) Read <u>The Other Source: Where Does Plastic in The Great Pacific Garbage Patch Come From by Ocean Cleanup</u>.

b) Fill in the table below by listing the different types of macroplastics you expect to find in the Great Pacific Garbage Patch. For each macroplastic listed, you need to identify its potential source(s), a marine species it impacts, the physical and/or behavioral characteristics of the marine species relevant to its interaction with the macroplastic, and how the macroplastic adversely impacts the respective marine species.

Macroplastic	Source(s)	Marine Species	Behavioral + Physical Characteristics	Im





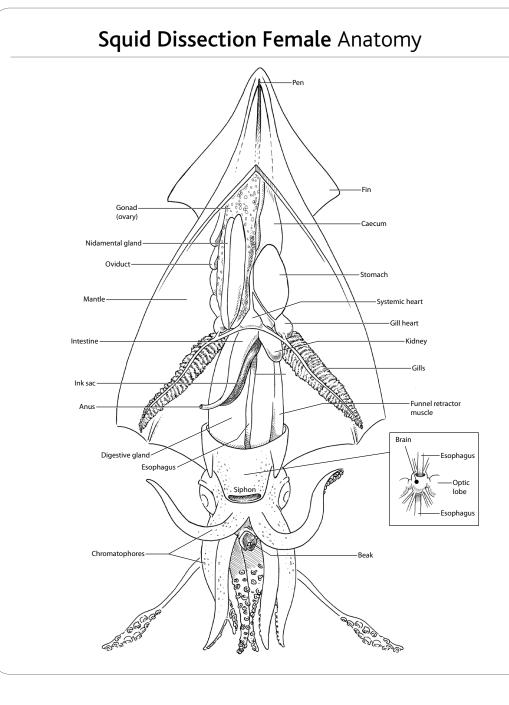
LESSON 5 Plastics and Climate Change, a Never Ending Cycle

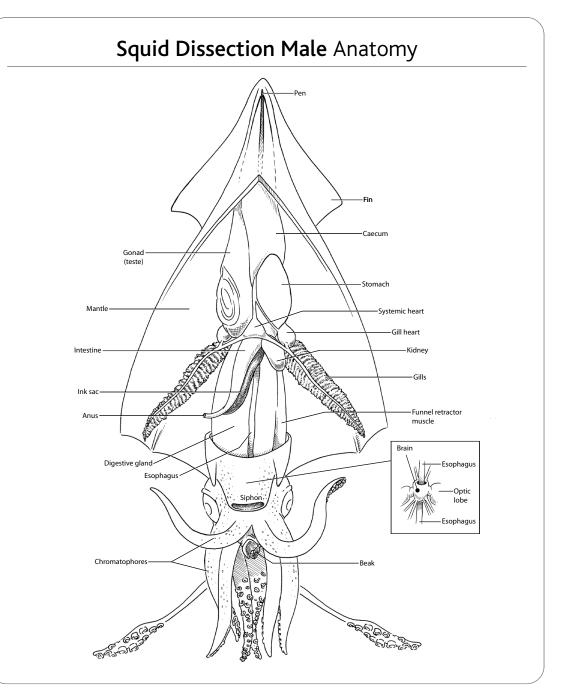
mpact on Marine Species		



LESSON 2 How Plastics Travel LESSON 3 Big or Small, Plastics Have a Huge Impact LESSON 4 Plastics at the Wheel, Driving Through Ocean Currents

2 Squid Herring Dissection: Complete the squid and/ or herring dissection following the diagrams shown here and answer the questions once the dissection is complete.





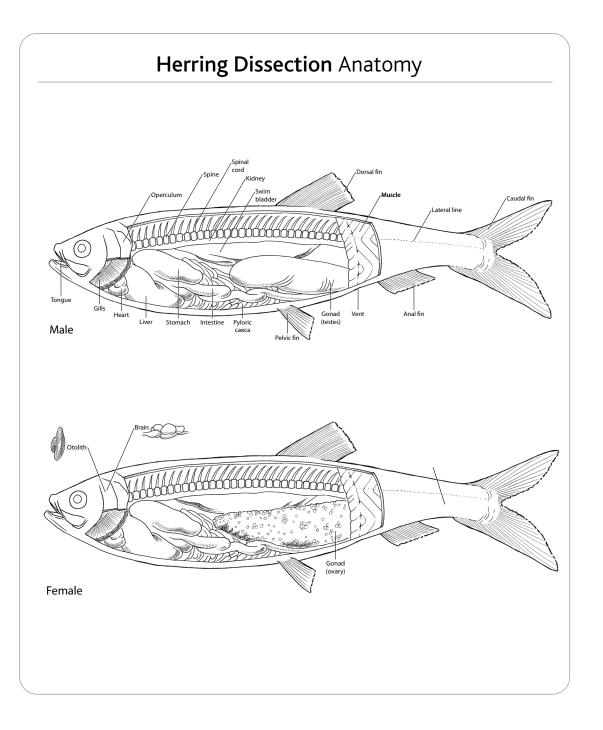




LESSON 5 Plastics and Climate Change, a Never Ending Cycle



LESSON 2 How Plastics Travel to the Ocean LESSON 3 Big or Small, Plastics Have a Huge Impact **LESSON 4** Plastics at the Wheel, Drivin Through Ocean Currents



a) What was the most surprising find from the dissection?



LESSON 5 Plastics and Climate Chang a Never Ending Cycle



LESSON 2

LESSON 3 Big or Small, Plastics Have a Huge Impact

LESSON 4

b) Did you notice any discernible pieces of plastics in your animal? Keep microplastics in mind!

Would you be able to see it with your bare eye? What would you need to make a clear observation of microplastics in your animal? If you didn't see any, where may you find those pieces of plastic in another specimen?

c) Consider the impacts plastics would have on this animal and the species connected to it via the food chain (humans should be taken into consideration in your food chain!).







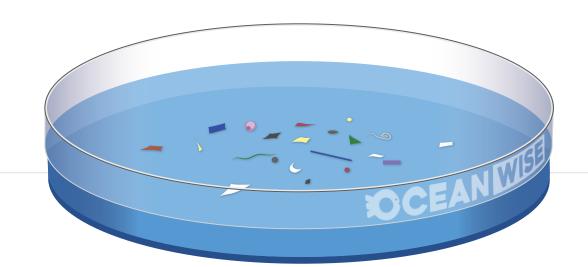
LESSON 2 How Plastics Travel to the Ocean LESSON 3 Big or Small, Plastics Have a Huge Impact LESSON 4 Plastics at the Wheel, Drivin Through Ocean Currents



As you now know, plastics come in all shapes and sizes which affect how they harm ocean health and marine species. While microplastics are tiny, they ironically have a huge impact! Think of this when reflecting on the following questions.

REFLECT

1. What are the various ways that plastic impacts animals and ecosystems in our ocean?





LESSON 5 Plastics and Climate Chan a Never Ending Cycle



LESSON 2

LESSON 3 Big or Small, Plastics Have a Huge Impact

LESSON 4

- 2. How do microplastics pose a more extensive and widespread threat to the environment and humans than do macroplastics?
- 3. What are meaningful and equitable ways to reduce and remediate plastic pollution around the world?





LESSON 5



LESSON 3 Big or Small, Plastics Have a Huge Impact

LESSON 4



Minimize the microfibers you release into waterways by:

- buying fewer synthetic clothes
- washing synthetic items less often (try spot cleaning!)
- washing clothes in cold water on gentle cycles

THE WHY?

Researchers have found polyester fibers in the ocean as far away as the Arctic, believed to be from common polyester clothing. When buying new clothes, be sure to check their labels. Generally, clothes composed of more synthetic "ingredients" have a greater risk of releasing microfibers such as polyester, nylon, acrylic, and lyocell. Instead, look for clothing made from hemp, linen, and bamboo. Spot cleaning and washing your clothes less often reduces the number of microfibers released into the ocean. Ocean Wise research found that washing clothes in cold water on a gentle cycle reduces microfiber shedding by up to 70%.









LESSON 5



LESSON 2 How Plastics Travel to the Ocean LESSON 3 Big or Small, Plastics Have a Huge Impact

ESSON 4 lastics at the Wheel, Drivi prough Ocean Currents

Lesson 4 Plastics at the Wheel, Driving Through Ocean Currents



LESSON 5

Plastics and Climate Change, a Never Ending Cycle



LESSON 2

LESSON 3

LESSON 4 Through Ocean Currents



1 a) Read <u>The Journey of Forgotten Plastics Through Our Ocean Currents by Ocean Blue</u> <u>Environmental News Blog</u> and visit <u>Pollution Tracker by Ocean Cleanup</u>.

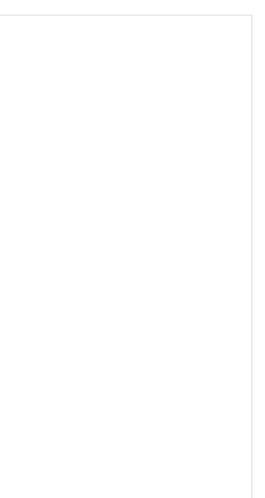


b) Considering ocean currents, hypothesize where the rubber ducks may have ended up by circling a region(s) on the world map below. Explain why you have circled these areas.

Reasoning:



LESSON 5 Plastics at the Wheel, Driving Plastics and Climate Change,





2 Answer the questions below after watching, <u>Hokulea Sailed Around The World, But</u> Couldn't Escape Plastic – Ocean Stories by Ocean Wise and How Our Trash Reaches **Remote Beaches.**

LESSON 1

LESSON 2

a) How are these remote islands and beaches accumulating so much plastic and garbage?

b) What are some key takeaways/messages you found from watching the Hokulea voyage? How can we apply those to our daily lives?

c) What does malama honua mean? How could you take that translation and include it into your life in a meaningful way?

LESSON 3

d) What kind of impact would plastic pollution have on people if we had to perform a necropsy on all our own food? Could you see this impacting the way we treat plastic and the ocean?

LESSON 4

Through Ocean Currents

LESSON 5 Plastics at the Wheel, Driving Plastics and Climate Change,



LESSON 2

LESSON 3

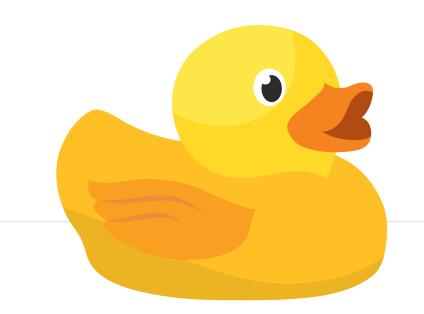
LESSON 4 Through Ocean Currents



Wow, most plastics have probably traveled around the world more than you have! Reflect on what you learnt about plastic pollution traveling throughout the ocean via ocean currents.

REFLECT

1. What is the connection between the ocean and the Earth's global temperature?





LESSON 5

Plastics at the Wheel, Driving Plastics and Climate Change,



LESSON 2

LESSON 3

LESSON 4 Plastics at the Wheel, Driving Plastics and Climate Change, Cleanup Your Shoreline for Through Ocean Currents

2. How does plastic pollution move around the world?

3. How do ocean currents affect the overall goal of removing all plastics from the ocean?



LESSON 5



LESSON 3

LESSON 4 Plastics at the Wheel, Driving Through Ocean Currents



By checking out the Plastic Wise Partner Map by Ocean Wise, support a plastic reduction partner or encourage your favorite business or restaurant to #BePlasticWise and join the Plastic Wise partners!

THE WHY?

Plastic pollution isn't only produced by individuals or households, it's produced by businesses too. And, like it or not, the choices you make when supporting a business ties you to their plastic pollution. Have you ever gotten plastic boxes and cutlery when ordering take-out at a restaurant, or ordered something online and received it in a plastic bag? Whether you are buying from a business at home or abroad, you are (perhaps unknowingly) contributing to the international plastic pollution problem. By supporting plastic reduction partnered businesses, or encouraging your favorite companies to #BePlasticWise, whether they be local or international, you can help reduce the plastic pollution entering our ocean. This way, it won't be plastic pollution connecting us but the determination and efforts to protect the ocean!







LESSON 5



LESSON 2 How Plastics Travel to the Ocean

LESSON 3 Big or Small, Plastics Have a Huge Impact

-ESSON 4 Plastics at the Wheel, Drivin Fhrough Ocean Currents

Lesson 5 Plastics and Climate Change, a Never Ending Cycle



LESSON 5

Plastics and Climate Change, a Never Ending Cycle **LESSON 6** Cleanup Your Shoreline for a Cleaner Ocean

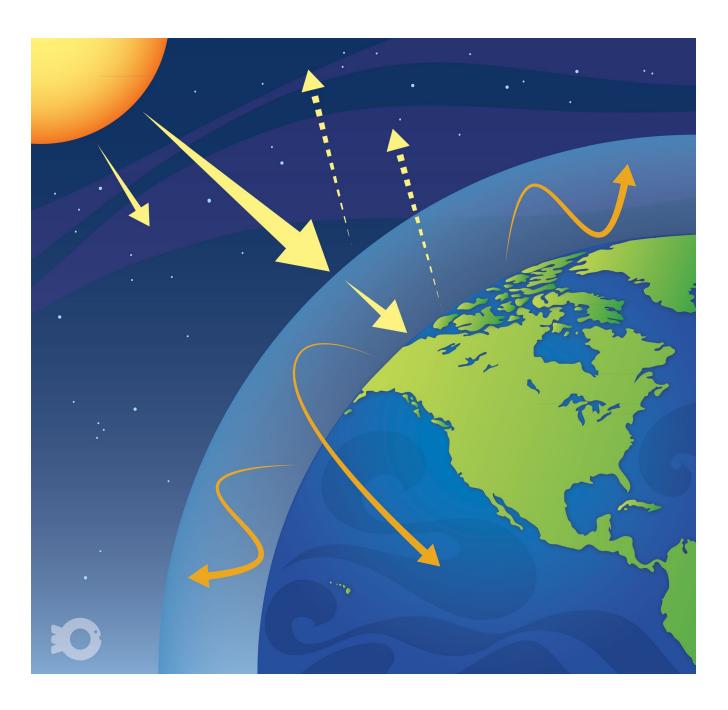


32

LESSON 2

LESSON 3

LESSON 4





Read Greenhouse Effect 101 by NRDC. Complete the greenhouse effect experiment and answer the following questions.

a) How does the soda bottle affect the temperature of treatment 1 compared to treatment 2, that does not have a soda bottle covering it?

Answer:

b) List some of the chemical compounds contributing to climate change. Which component of the experiment simulated these chemical compounds?

Answer:



LESSON 5 Plastics and Climate Change, a Never Ending Cycle



LESSON 2

LESSON 3

LESSON 4

c) What are some similarities between the effects of greenhouse gasses and the soda bottle? You can draw a diagram on a separate sheet of paper to explain.

2 Report on the physical activities and chemicals used/released during the plastic lifecycle stage that you have been assigned. Make sure to clarify how these contribute to climate change. You can refer to More Than Just Litter: Plastic and Climate Change by Foodprint. Prepare to present your report to the class.





LESSON 5 Plastics at the Wheel, Driving Plastics and Climate Change, a Never Ending Cycle



LESSON 2

LESSON 3

LESSON 4

- **3** Read <u>Plastic Suffocation: Climate Change Threatens Indigenous Populations and</u> Traditional Ecological Knowledge by Samantha Chisholm Hatfield.
- a) The general public seem immune and unaware of the daily impacts of plastic waste, explain in your own words why this is not the case for many Indigenous populations.

of TEK that relates, not only to the ocean, but the beaches and mudflats of their homelands. How is climate change and plastic waste disrupting not only that relationship but that understanding of their homelands?

b) How is plastic and climate change threatening vital Traditional Ecological Knowledge as well as threatening the cultural foundations and lifeways?





LESSON 5 Plastics and Climate Change, a Never Ending Cycle

LESSON 6

c) Marine Indigenous communities have a unique and intimate understanding and relationship



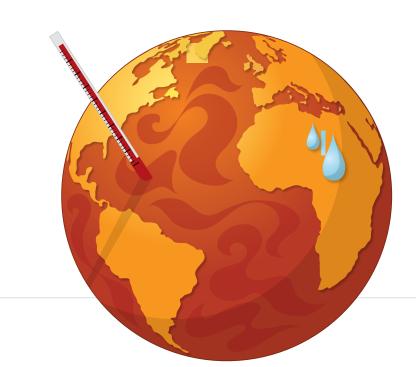
LESSON 2 How Plastics Travel to the Ocean LESSON 3 Big or Small, Plastics Have a Huge Impact LESSON 4 Plastics at the Wheel, Drivin Through Ocean Currents



Would you have ever thought that plastic can also contribute to climate change? Well now you know, and you are aware that the life cycle of plastic begins polluting before it's even discarded by the consumer. Take a minute to reflect on what you have learned and how it might urge you to change your habits.

REFLECT

1. What aspects of the plastic life cycle contribute to the release of greenhouse gasses?





LESSON 5

Plastics and Climate Change, a Never Ending Cycle



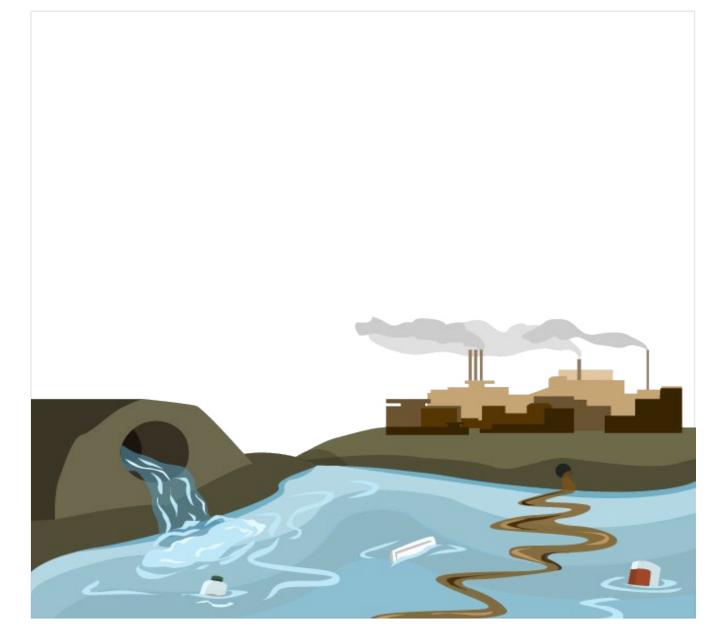
OCEAN WISE	OCEAN PL	ASTICS STUE	DENT WORKBOOK
-------------------	----------	-------------	---------------

LESSON 2

LESSON 3

LESSON 4 Plastics at the Wheel, Driving Plastics and Climate Change,

- 2. How does plastic harm the environment before it physically enters the environment as pollution?
- 3. How is the extinction of TEK directly impacted by plastic waste and climate change?







LESSON 5 a Never Ending Cycle



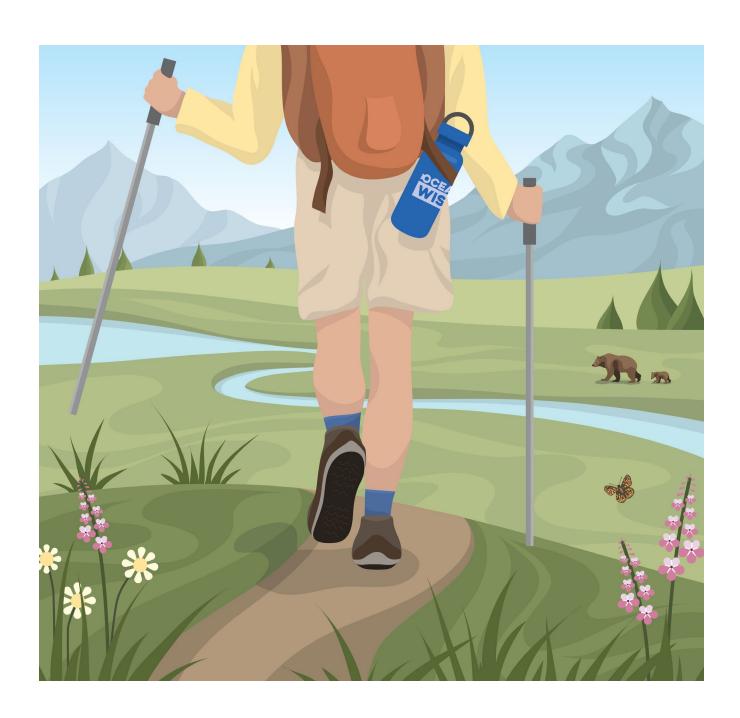
LESSON 2 How Plastics Travel to the Ocean LESSON 3 Big or Small, Plastics Have a Huge Impact LESSON 4 Plastics at the Wheel, Drivin Through Ocean Currents



Reduce your consumption of plastics! Buy a glass or stainlesssteel water bottle, a cotton and non-woven polypropylene grocery bag, a bamboo toothbrush, or better yet, re-use items you already have at home!

THE WHY?

By reducing the amount of plastic you purchase, whether that be single use or multi-use, you are no longer supporting the plastic life cycle which contributes to climate change from start to finish. More specifically, you are preventing your consumer habits from contributing to oil production and fracking, the production of petrochemical byproducts, incineration of plastics, the overwhelming of landfills and recycling centers from plastics, and environmental pollution.





LESSON 5



Plastics and Climate Change, a Never Ending Cycle



LESSON 2 How Plastics Travel to the Ocean LESSON 3 Big or Small, Plastics Have a Huge Impact

LESSON 4 Plastics at the Wheel, D

Lesson 6 Cleanup Your Shoreline for a Cleaner Ocean





LESSON 5

Plastics and Climate Change, a Never Ending Cycle



LESSON 2

LESSON 3

LESSON 4





1 a) In the table below, write down some of the *Dirty Dozen* items you use on a weekly basis and come up with a non-plastic alternative for each.

Dirty Dozen Item	Non-Plast





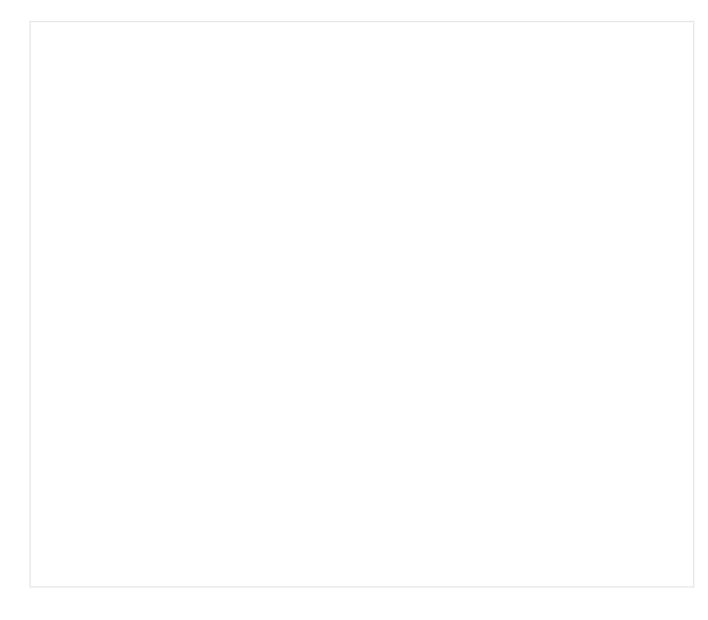
LESSON 5

tic Alternative	



LESSON 2 How Plastics Travel to the Ocean LESSON 3 Big or Small, Plastics Have a Huge Impact LESSON 4 Plastics at the Wheel, Drivin Through Ocean Currents

b) For one of the dirty dozen items, create a non-plastic alternative which may not be on the market yet. When doing so, you may want to consider some of the disadvantages of the non-plastic alternatives you have listed.







LESSON 5

Plastics and Climate Change, a Never Ending Cycle



窟

 \bigcirc

(P)

2 Record the different types of garbage you observed and collected during the garbage clean up in the data card below.

LESSON 1	
The History of Plastics	

LESSON 2

LESSON 3

LESSON 4

OCEAN		Trash Collected			
WISE		MOST LIKELY TO FIND ITEMS:	FISHING GEAR: Fishing Buoys, Pots or Traps: =		
SHORELINE CLE		Beverage Cans:	=	Fishing Net and Line:	=
ndividual Data ITE INFORMATION: eanup Site Name		 Coffee Cups and Lids: Food Containers: (i.e. yogurt or snack cups, milk container Food Wrappers: 	= s) = =	PRODUCT PACKAGING Soft Plastic Packaging: Rigid Bottles and Jugs:	TOTAL # =
te Coordinator	Distance Cleaned (КМ)	Glass Bottles: C Paper: Plastic Bags:	=	PERSONAL HYGIENE: Diapers, Wipes, Tampons, Condoms: Syringes: Personal Protective Equipment:	TOTAL # = =
tal Weight (KG)	# of Recycling Bags	Plastic Bottles: Plastic Cups: Six Pack Holders:	=	(i.e. gloves, masks) TINY TRASH LESS THAN 2.5 CM: Styrofoam Pieces:	TOTAL #
itizen scientists: Pick up all litter that you fi or the items listed on the back . Please do no nly numbers are useful. Please return this car hen complete.	t use words or check marks.	Straws: Takeout Containers:	=	 Plastic Pieces: OTHER TRASH: Balloons: Clothing, Shoes: 	= TOTAL # =
EXAMPLE: Plastic Bags:	total # = 8	TOP 3 ADDITIONAL ITEMS: Identify the top 3 items found that are not listed on the card 1: 2:	TOTAL# = =	Construction Materials: Construction Materials: Large Styrofoam: Tires:	=
RESENTING SPONSOR	NATIONAL SPONSORS	3: Thank you for c	 ontributin	Toys:	=

		Cleanup Date
		Distance Cleaned (KM)
# of Garb	age Bags	# of Recycling Bags
his Card	Most Unus	ual Item
		# of Garbage Bags

EXAMPLE:			
Plastic Bags:	111 III		= 8
PRESENTING SPONSOR		NATIONAL SPONSORS	
Loblaw Companies	Limited	Corona,	



LESSON 5



LESSON 2 How Plastics Travel to the Ocean LESSON 3 Big or Small, Plastics Have a Huge Impact LESSON 4 Plastics at the Wheel, Drivin Through Ocean Currents



Shoreline cleanups are a powerful environmental remediation and conservation tool. Reflect on how you can bring shoreline cleanups to your local community and make a difference!

REFLECT

1. How does taking direct action to protect the environment benefit the environment and yourself?







LESSON 5 Plastics and Climate Chan a Never Ending Cycle



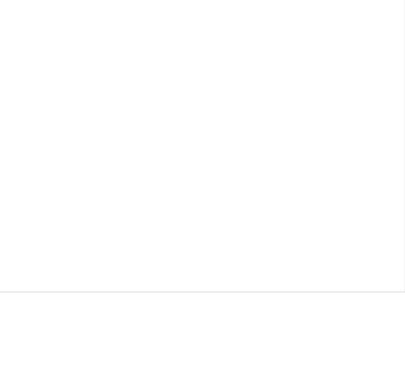


LESSON 2

LESSON 3

LESSON 4

- 2. How can you influence the state of the environment and the lives of the people who rely on it, including yourself?
- 3. How can direct action, especially shoreline cleanups, help and be informed by Traditional Ecological Knowledge?







LESSON 5

LESSON 2 How Plastics Travel to the Ocean LESSON 3 Big or Small, Plastics Have a Huge Impact **LESSON 4** Plastics at the Wheel, Drivir Through Ocean Currents



Take part in an <u>Ocean Wise Shoreline Cleanup</u> with your classmates or within your community!

THE WHY?

So far, Ocean Wise's shoreline cleanups have removed 13,915kg of litter from coastlines in Canada and the United States. That's the equivalent of 700 killer whales! Shoreline cleanups have prevented plastics from entering marine ecosystems, reducing fatal impacts on thousands of species, such as the hawksbill sea turtle. Since plastics travel with ocean currents around the world, by participating in a shoreline cleanup, you are directly contributing to the removal of plastics in every ocean and shoreline around the world!





LESSON 5 Plastics and Climate Change a Never Ending Cycle



WHAT IS OCEAN WISE?

Ocean Wise is a non-profit organization whose mission is to empower communities and individuals to take action to protect and restore our world's ocean.

Ocean Wise does this by tackling three critical ocean challenges - climate change, overfishing and plastic pollution - through six intersecting initiatives: seaforestation, changing arctic, plastics, fisheries and seafood, youth, and whales. Through our work we make a real and measurable difference to the health and well-being of the ocean and the people who depend on it. You can learn more about the actions you can take at ocean.org.

Looking for more Ocean education?

Ocean Wise's Education team offers in-person mobile education opportunities, online virtual programs, and more. Ocean Wise's Professional Development Workshops are designed to train educators on discussing ocean health and literacy for students K-12. Visit ocean.org or email education@ocean.org to learn more.

Follow us on Social Media

IG: @oceanwise, FB: @oceanwise, TW: @oceanwise, LK: @oceanwise Sign up for our *newsletter*.

Have feedback? We would love to hear from you!

Please take 4 minutes to rate us.

Illustrations by Art by Di.

This project was undertaken with the financial support of the Government of Canada.











