



# InterEd

## Technology Innovators Talk Series

Global Stage Inc.

(GC\_EN\_S1-2-3-T)

# Lesson 2: How does plastic waste impact our environment?

**6** CLEAN WATER  
AND SANITATION



**11** SUSTAINABLE CITIES  
AND COMMUNITIES



**12** RESPONSIBLE  
CONSUMPTION  
AND PRODUCTION



**14** LIFE  
BELOW WATER



with **Robin Lewis**

Co-Founder, mymizu

Director, Social Innovation Japan

# Introduction



In lesson 1, you:

- analyzed and shared ideas about Robin's photo of beach pollution.
- researched plastic pollution.
- took a gallery walk to discuss and gather new ideas.
- connected personal experiences that inspired action.



In this lesson, you will:

- research and discuss plastics and microplastics.
- explain how plastics enter the food web.
- explain other environmental impacts of plastics and microplastics.



# LEARNING TARGETS

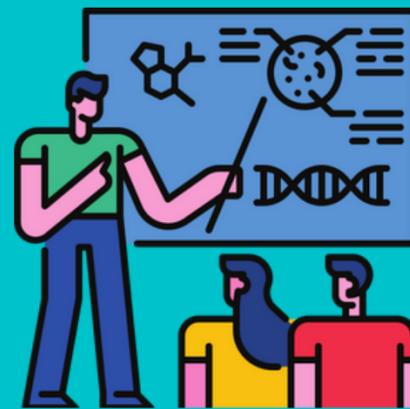


1. Identify different attributes of plastics and microplastics.
2. Explain how microplastics are generated and enter the environment
3. Explain what happens to microplastics once they enter the environment
4. Justify whether or not plastic is a sustainable material



# LEARNING EXPERIENCES

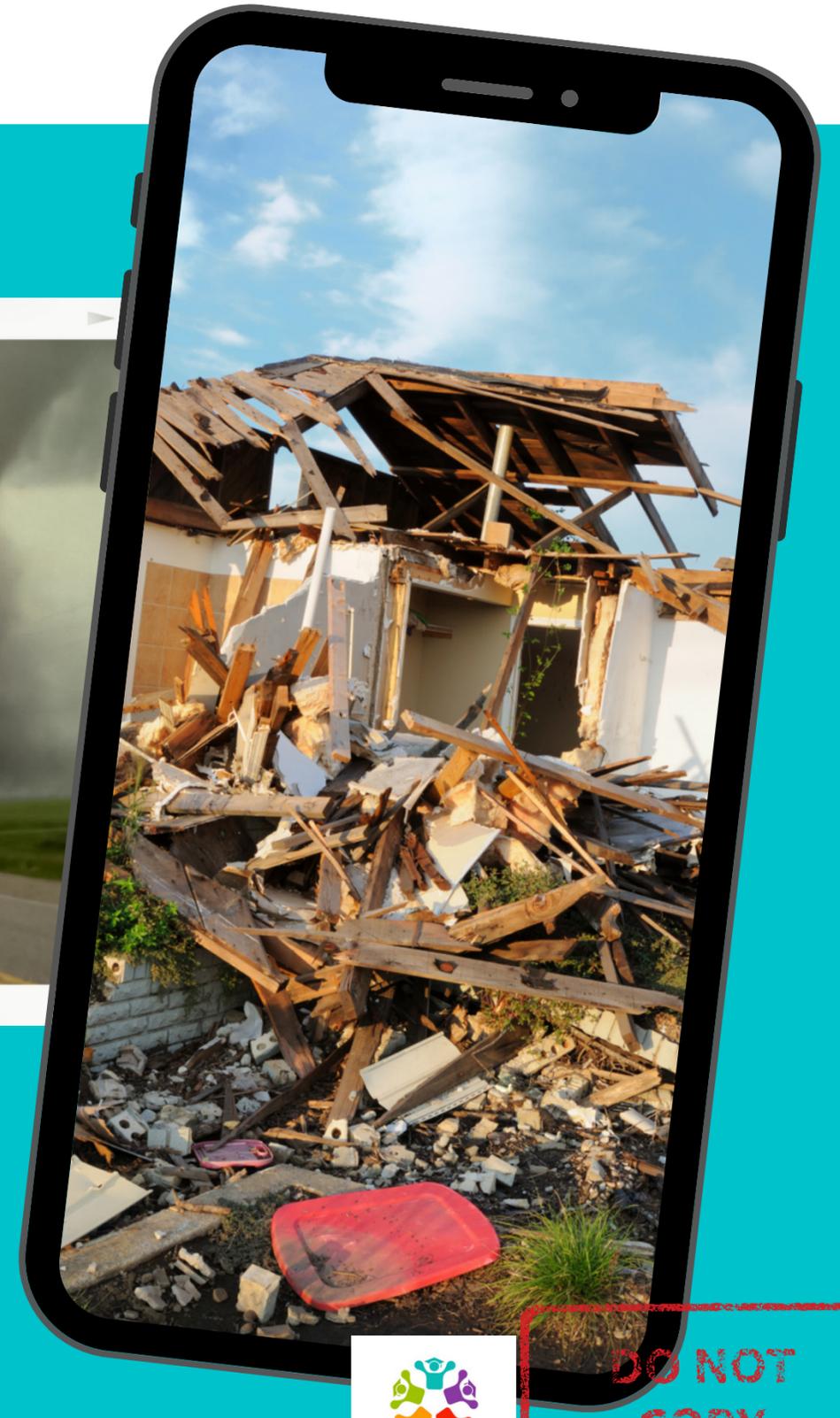
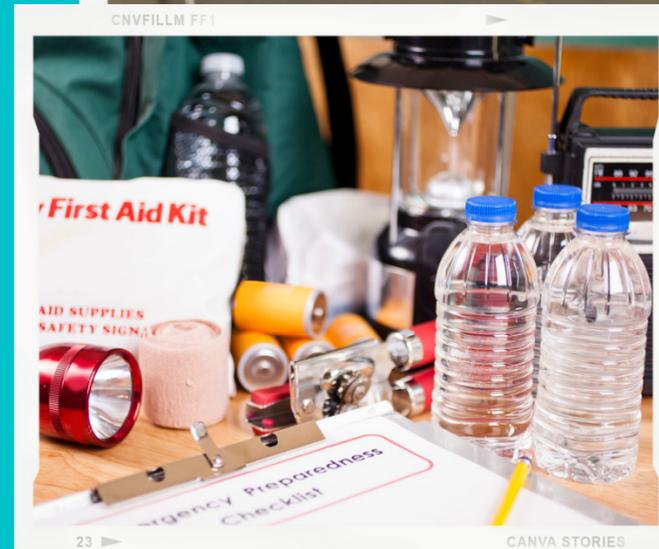
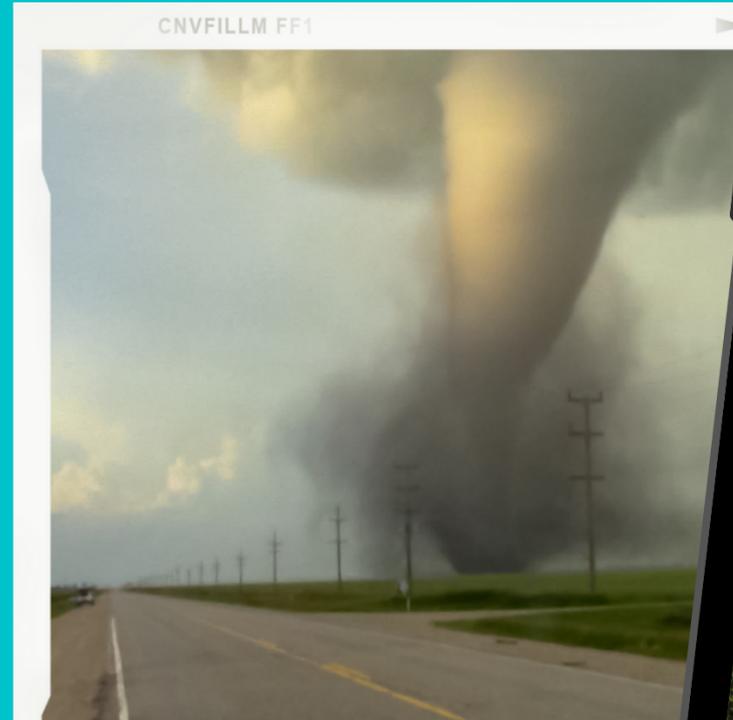
- Introduction
- Reflection
- Examining Plastics Research Activity
- Two-Minute Presentations
- Connections and Reflections



DO NOT  
COPY

# Reflections

A tornado hit my house  
and we were not prepared.  
I did some research and taught my  
family about tornado preparedness and  
made  
a guide for weather emergencies and  
shared it with people I know.



DO NOT  
COPY

# Reflections



Robin took action just like you!

He started with a small idea and with collaboration and ideas from other people, he grew it into an amazing tool.

# Questions



What questions  
do you have  
about plastics and  
microplastics?

# Examining Plastics



Students will work in small groups to identify and understand the attributes of plastic and how they impact our world.

Each group will create a visual presentation and present it to their peers.



# Examining Plastics: Group Roles

## Group Facilitator

Serves as the leader by keeping their peers on task with time to complete the objective.



# Examining Plastics: The Task

Create a brief presentation to share your learning with your peers.

You may create 1 - 2 digital slides, or use chart paper to create a poster of information.



# Examining Plastics: The Topics

| Plastic Attributes   | Microplastics  | The Food Web   | Sustainability   |
|--|--|--|--|
| <p>What is plastic?</p> <p>What is it composed of?</p> <p>What are common types of plastic we use daily?</p> | <p>What are microplastics?</p> <p>How are microplastics different from large debris waste?</p> <p>How do microplastics move through the environment?</p> | <p>How do plastics enter the food web?</p> <p>How could microplastics from a plastic item end up being ingested by a human?</p> <p>What else is impacted once plastic enters the food web?</p> | <p>What does it mean if plastic is considered degradable or non-degradable? How does disposing of it impact the environment?</p> <p>What are examples of degradable and non-degradable plastics that we use globally?</p> <p>In general, is using plastic sustainable?</p> |

# Examining Plastics: The Topics



# Two-Minute Presentations

With your group, you will have two minutes to share what you learned about your topic.



# Connections and Reflections



# Connections and Reflections



- Place your name on the back of a sticky note.
- Reflect and write a brief response to the questions below.



What did you think about Robin's methods of bringing social awareness about his mission?



What surprised you the most?

