

# Diving into Sustainable Development Goal #14

## Life Below Water

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Learning Journal



Visit the SDG 14 Metaverse to  
begin your learning journey!

[Enter the Metaverse](#)

Password to enter: sdg14

# Section 1: Sustainable Development Goal #14 Overview

## Language and Definitions

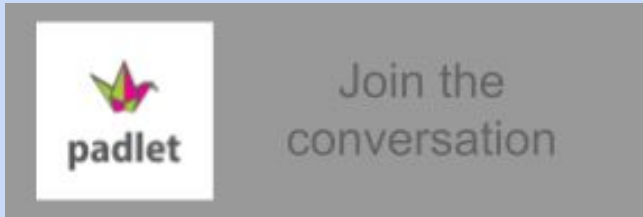
Click on the picture to learn more about the language and definitions you will need to know while exploring SDG 14: Life Below Water



# Section 1: Sustainable Development Goal #14 Overview

**Video** (found on the big screen in FrameVR world)

After watching the video overview of SDG 14, participate in the Padlet found in the metaverse and here:



## **Scavenger Hunt**

While you explore Section 1 and learn about SDG 14, keep your eye out for **5 of the most common ocean plastics**. Record what you find here:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

# Section 1: Sustainable Development Goal #14 Overview

## Overfishing

Read the following article and create a summary that answers the 5 W's and H.

[https://www.sciencejournalforkids.org/wp-content/uploads/2022/10/net\\_lights\\_article.pdf](https://www.sciencejournalforkids.org/wp-content/uploads/2022/10/net_lights_article.pdf)

Who	
What	
Where	
When	
Why	
How	

# Section 1: Sustainable Development Goal #14 Overview

## Ocean Warming and Acidification

Individually or with a group, complete the activity on Ocean Acidification. Click the icon below.



When you are done the activity, record your thoughts on the following: Think about the living organisms that might be affected by acidification and what may happen to them in such an environment.

Insert your  
audio here

# Section 1: Sustainable Development Goal #14 Overview

## Eutrophication

Answer the questions below.

1. In your own words, write a definition for Eutrophication.
2. What are 3 major ways in which excess nutrients get into waterways?
3. What are 3 methods farmers can use to decrease excess nutrients from getting into waterways?

# Section 1: Sustainable Development Goal #14 Overview

## Plastic Pollution

Learn about the Great Pacific Garbage Patch.



After watching the video participate in the Flipgrid conversation on The Great Pacific Garbage Patch. Click the icon below.





# Section 1: Sustainable Development Goal #14 Overview

## Climate Change and Our Oceans

Below write a short summary of the effects CO<sub>2</sub> has on our oceans.

# Section 1: Sustainable Development Goal #14 Overview

## Why is SDG 14 Important to Canada? How the Government of Canada Contributes?

After visiting <https://framevr.io/affected> summarize the information you found on the questions above. You can create an additional slide if needed.

<b>Important</b>	<b>Interesting</b>
-	-
-	-
-	-

# Section 1: Sustainable Development Goal #14 Overview

## Who does SDG 14 effect? How does SDG 14 affect me?

After visiting <https://framevr.io/affected> complete the following:

- Write a 1-2 minute monologue on how you feel about our oceans and all those impacted by SDG 14. Remember to include:
  - A compelling opening line
  - Present a strong point of view
  - Develop a storyline
  - Wrap up with parting words

**\*\*You can write your monologue on the next slide. Your monologue will be presented to the class.\*\***

# Section 1: Sustainable Development Goal #14 Overview

Write your monologue here

# Section 1: Sustainable Development Goal #14 Overview

## Review

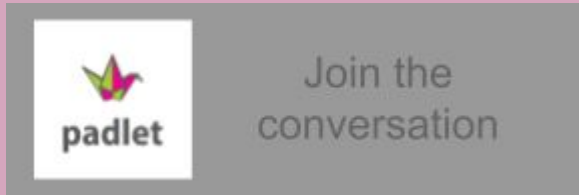
Complete the Section 1 quiz. Click the icon below.



# Section 2: Prevention/Protection

## Your Commitment

How can you make a difference? What could you commit to today to help contribute to SDG 14? Click the icon below to join in on the conversation.



## Scavenger Hunt

While you explore Section 2 and learn about how to make a difference, try to find **4 animals commonly injured** due to plastic. Record what you find here:

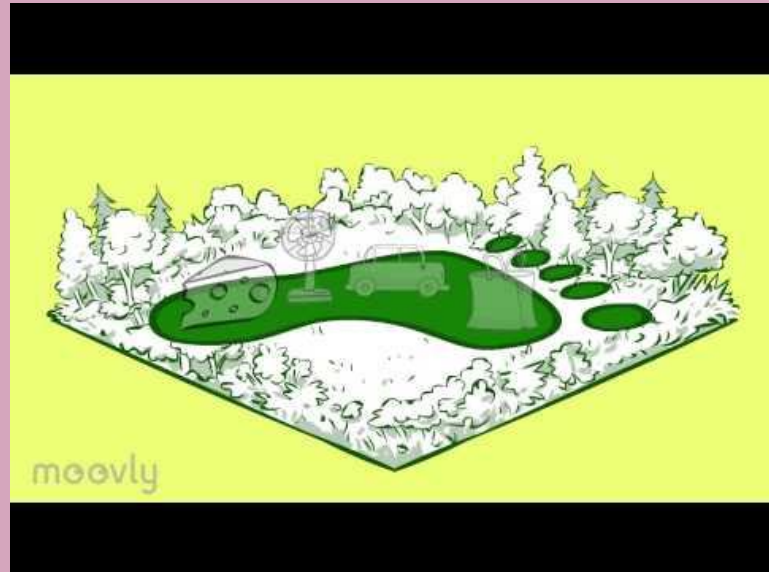
1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

# Section 2: Prevention/Protection

## Ecological Footprint

One way that you can reduce your impact for climate change and life below water is reducing your ecological footprint. Your ecological footprint measures your waste and its effect on nature giving you an idea of how you are impacting the environment.

Watch the video.



# Section 2: Prevention/Protection

## Ecological Footprint continued

After watching the video on the previous slide, complete the Ecological Footprint Calculator by clicking on the icon below. Reflect on your results.



My results made me feel...

One thing I could change is...



# Section 2: Prevention/Protection

## Sustainable Seafood

Click the icon below and follow the instructions for the Sustainable Fishing activity.

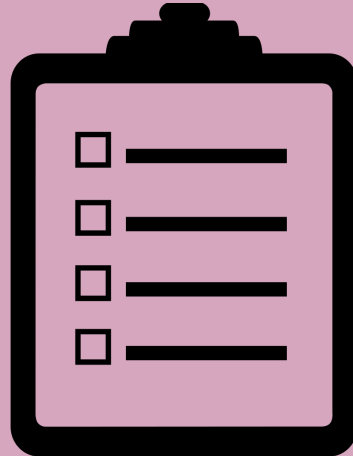
Through this activity you will construct knowledge on why fish populations are declining and how continuing this type of fishing is not sustainable.



# Section 2: Prevention/Protection

## Reducing Energy Use

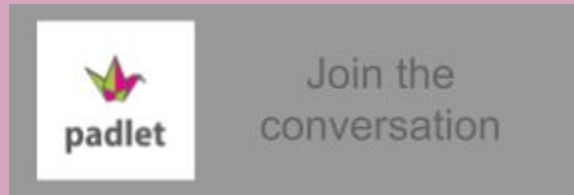
Click the icon below and go through the checklist and see where you may be able to make small changes that will make big impacts for our Earth.



# Section 2: Prevention/Protection

## Conserving Water

Join in the conversation! How can you conserve water? Click the icon below and list all the ways you can think of that would help conserve water in your daily life.



# Section 2: Prevention/Protection

## Protecting Local Watersheds

Through protecting local watersheds you can contribute to SDG 14 and the overall health of our oceans.

Plan a watershed cleanup initiative your area. Follow the template. Once completed, you will pitch your plan to the class. One initiative will be chosen to be completed by the class this school year. Click the Icon below, make a copy of the Google Doc and start working on your initiative!

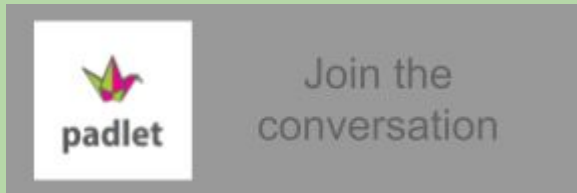
Watch the video below.



# Section 3: Current Events/Efforts

## Where in the world?

Efforts towards SDG 14 are needed to ensure the conservation and sustainability of our oceans, seas and marine resources. But do you believe certain areas in the world are more important than others? Click the icon below to join in on the conversation. Where in the world do you think efforts towards SDG 14 are most important?

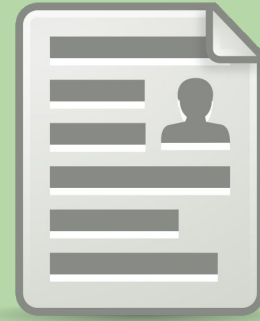


## Scavenger Hunt

While you explore Section 3 and learn about the current events and efforts being made towards SDG 14, you may begin to wonder “**What will the future look like?**” Hidden within Section 3 is a look at what our Earth could look like in the future. What future do you want to see?

# Section 3: Current Events/Efforts

## New Inventions Saving our Oceans



Read the article by clicking the icon on the side.

After reading the article, choose one of the inventions to do some research on. Summarize your findings below. Add another slide if needed.

**Invention:** The invention I chose is...

**Summary:** Write summary here...

# Section 3: Current Events/Efforts

## Breaking News

Choose one of the articles found in Section 3 and create a summary that answers the 5 W's and H.

Who	
What	
Where	
When	
Why	
How	

# Section 3: Current Events/Efforts

## Final Reflection

Your journey through the metaverse has been full of important information. Some of what you have learned has most likely made an impact on you. Reflect on your learning journey. On the next 3 slides explain how your outlook on SDG 14 has changed, and in what ways you are motivated to make a change for a better future. Below are some questions you may use to help you in your reflection.

### **Guiding Questions:**

What seems most important about what was learned?

What should I do with what I've learned and how should I respond to what I didn't learn?

What did you find most surprising about \_\_\_\_\_?

Of what you learned, how much of it was new, and how much of it have you seen before?

What was your mindset before, during, and after the lesson?

What now?



## Section 3: Current Events/Efforts

Write your reflection on the next 3 slides. You can use up to five slides if needed.

# Section 3: Current Events/Efforts

Reflection con't

# Section 3: Current Events/Efforts

Reflection con't

# Ready to make a Change?

After taking in all that this metaverse has to offer about SDG 14 are you feeling inspired to make a difference and help make our oceans more sustainable for now and future generations?

Here is one great opportunity to put your innovation to use:

Scan the QR code to learn more about the Caring for Our Watershed Program

Or visit their website by clicking the link below:



<https://caringforourwatersheds.com/>