Session Title	The Environment and You
Objectives:	Real-world Content/Context
1. Formulate a definition of environment.	Students will explore how their daily activities impacts waste production.
2. Outline the effects of human activities on the environment	They will specifically make links between their daily activities and
3. Justify the importance of conserving the natural environment	conserving the natural environment. The will eventually formulate a
	definition of the environment.
Life	Skills
Collaboration	Think Pair share
Problem-solving	Engineering Design Process
Communication	Explain their ideas during phase 3 of the 5Es lesson
Creativity	Make predictions and communicate through creative writing and art work

#### **Content Notes**

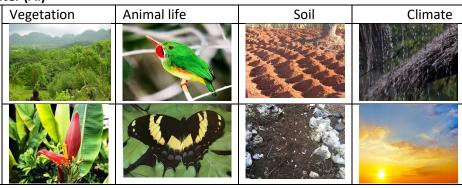
The environment is all the physical surroundings on the Earth, including all living and non-living things, and which affects life on earth. Deserts, forests, wetlands, grasslands, marine, freshwater and tundra are examples of environments which differ in vegetation, animal life, soil and terrain and climate. Conserving the environment means trying to preserve natural resources so they will still be around in the future.

The activities of people may affect the environment in good and bad ways. Human activities have caused serious environmental problems which have changed the earth and its climate, and have impacted the health of many living things.

### Attention Igniter (AI)

#### **Guessing game:**

- 1. Set up 2 teams
- 2. Let each team pick a student randomly
- 3. Show the student one of the images
- 4. The student must help the team guess the image in 30 seconds
- 5. If a team does not guess the second team can try
- 6. Go until all six images are used.
- 7. Formulate a definition of Environment using all the guessed words



ENGAGE (a). Let students Think Pair Share and (b). Show Students the trash generation	•	stions 1-4		<ul><li>1.What kind of objects do you use most each day?</li><li>2. How much trash do you generate each day?</li><li>3. What happens to the trash you use?</li><li>4. Where does plastic come from?</li></ul>
List all the things you used and threw away from yesterday till now.	Count the type of things you used and write the number below.			Calculate the percentage of the things you use that are plastic?
	Plastic	Paper	Other	(Amount of plastic/total things) X 100

#### **EXPLORE**

Watch the two videos below (If a video player is not available then the infographic shown at the end of the lesson can be used for discussion





#### **EXPLAIN**

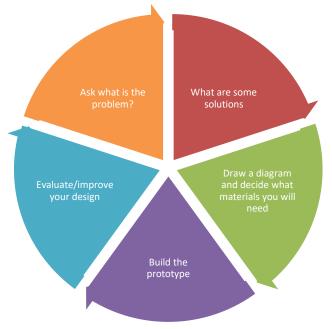
Answer the following questions:

- 1. How are plastic made?
- 2. How is making plastic bad for the environment?
- 3. What are the negative effects of improper plastic disposal in the environment?
- 4. How can plastics be better disposed?

#### **ELABORATE**

In your teams use the Engineering Design Process shown below to accomplish Project B. Select and conduct one other Project out of A or C

PROJECT A	PROJECT B	PROJECT C
Conduct an audit of the plastic waste in	Conduct an audit of plastic waste in your school.	Conduct an audit of organic waste in your school.
your school. Develop a plan to better	Develop a prototype for an innovative use of	Develop a plan to compost the organic waste and
dispose of your plastic waste.	disposed plastics that has commercial value.	sell the product.



Describe	Describe the learning experience, including all components as well as instructions for the task. Say what you thought about the task and what you expected going in. How were those expectations met or impacted?	2
Interpret	Interpret the experience discussing what you found challenging. Discuss in depth any insight(s) obtained. Support your insight(s) with examples.	3
Connect	Relate specifically what you have learnt from the experience. Make any possible connections to content previously learnt.	2
Evaluate/Apply	Provide a detailed account of how what you have learnt will influence your work/professional/personal practices for the future.	3

THIS YEAR OVER 9 MILLION TONNES

WILL ENTER THE WORLD'S OCEANS



THE RATE WE ARE OUR OCEAN

POLLUTING THE DOUBLES



BY 2026 ??

SEA TURTLES'

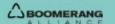
100%

**CORAL REEFS** 

# **PLASTIC DOES NOT**

"Plastic is so permanent and so indestructible that when you've tossed it, in the ocean or even into a dustbin... it does not go away"

Sir David Attenborough



**WE MUST ACT NOW** 





THE FIRST 4 STEPS



of marine plastic pollution BEFORE it enters our oceans:

## PLASTIC DOESN'T **DECOMPOSE**

IT JUST



**10,000 PIECES** OF MICROPLASTIC

PLASTIC BAGS

420 MILLION BOTTLE5

TRILLIONS OF MICROPLASTIC

SEA BIRDS

90%

OTHER PIECES OF PLASTIC

PACKAGING

chain - USI\*

Join the campaign to STOP MARINE PLASTIC POLLUTION

www.boomerangalliance.org.au/plastic\_pollution

1 Introduce a container

- Ban all single-use
- 3 Remove microbeads from personal care &
- 4 Ensure plastic producers &

#### INFORMATION SOURCES

I Washing of Consistent

I AFC Corps of Excellence for Corpl Beef Studie

I principle instance of Marine Specie

I purpose the Marine Specie

I configer ABCTV