A book cover with a picture of fish

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Climatology: Listening and Speaking Level III

Post Secondary Education Skills: Upper Intermediate English

(cc) Alec Campbell, Manveen Kaur Singla and the University of British Columbia’s Okanagan School of Education 2024

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Director, EAL Programs: Scott Roy Douglas

Program Coordinator, EAL Programs: Amber McLeod

Author: Alec Campbell

Co Author & Designer: Manveen Kaur Singla

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# Activity A: Class Discussion

*(Page 4 in student workbook)*

Discuss these questions in small groups:

1. ***Have you seen plastic pollution where you live?***

**Answers will vary.**

1. ***Have you visited the ocean?***

**Answers will vary.**

1. ***Why are oceans important?***

**Answers will vary.**

1. ***How can we protect oceans?***

**Answers will vary.**

1. ***How does ocean health affect us?***

**Answers will vary.**

# Activity B: Partner Discussion

*(Page 5-6 in student workbook)*

*Discuss the following questions with a partner and write down your responses:*

1. ***On a scale of 1 to 10, how clean is your home city?***

**Answers will vary.**

1. ***What does pollution look like in the rivers, lakes, and oceans of your home country?***

**Answers will vary.**

1. ***How does your culture approach pollution? Are they concerned about it?***

**Answers will vary.**

1. ***What kinds of laws and public initiatives exist in your home country to combat pollution?***

**Answers will vary.**

1. ***What kind of personal action do you take to reduce pollution? Examples?***

**Answers will vary.**

# Activity C: Vocabulary

*(Page 7 in student workbook)*

*Here are some keywords from the Podcast. With a partner, write a short definition for each word. Then choose five words and create a picture/symbol to represent each one.*

|  |  |
| --- | --- |
| **TERM** | **DEFINITION & PICTURE/SYMBOL** |
| **Decomposes**  *(Verb)* | to break down something into smaller and simpler parts; |
| **Environment**  *(n)* | the natural world in which people, animals and plants live |
| **Current**  *(n)* | A current is a steady and continuous flowing movement of some of the water in a river, lake, or sea. |
| **Marine**  *(adj)* | Marine is used to [describe](https://www.collinsdictionary.com/dictionary/english/describe) things relating to the sea or to the animals and plants that [live](https://www.collinsdictionary.com/dictionary/english/live) in the sea. |
| **Toxic**  *(adj)* | A toxic substance is poisonous. |
| **Biomagnification**  *(n)* | the increasing [concentration](https://www.collinsdictionary.com/dictionary/english/concentration) of [toxic](https://www.collinsdictionary.com/dictionary/english/toxic) substances within each [successive](https://www.collinsdictionary.com/dictionary/english/successive) [link](https://www.collinsdictionary.com/dictionary/english/link) in the food [chain](https://www.collinsdictionary.com/dictionary/english/chain) |
| **Mercury**  *(n)* | Mercury is a silver-coloured liquid metal that is used [especially](https://www.collinsdictionary.com/dictionary/english/especially) in thermometers and barometers. |
| **Recycling**  *(n)* | the act of [processing](https://www.collinsdictionary.com/dictionary/english/processing) used materials into new [products](https://www.collinsdictionary.com/dictionary/english/product) for further use |
| **Alternative**  *(n)* | a thing that you can choose to do or have out of two or more possibilities |
| **Dispose**  *(verb)* | to [throw](https://www.collinsdictionary.com/dictionary/english/throw) out or [away](https://www.collinsdictionary.com/dictionary/english/away) |

# Activity D: Vocabulary Sentences

*(Page 8-9 in student workbook)*

*Use the keywords mentioned below to fill in the blanks of the incomplete sentences. Each key word should only be used once.*

**Key Words:**

|  |  |  |
| --- | --- | --- |
| Decomposes | Environment | Current |
| Marine | Toxic | Biomagnification |
| Mercury | Recycling | Alternative |
| Dispose | Founded |  |

1. ***An environment is the natural world or ecosystem surrounding and affecting an organism, including air, water, and land.***
2. ***Marine is an adjective which refers to things that are in the sea or come from the sea.***
3. ***Poisonous things that cause harm to living organisms are considered toxic.***
4. ***There is a planet in the Solar System which is called mercury, but this word is also the name of a silvery metal that is liquid at room temperature, and which pollutes the water.***
5. ***When we get rid of something by throwing it away, we dispose of those things.***
6. ***A choice or option that replaces or offers a substitute for something else is an alternative.***
7. ***The noun form of current is a continuous, directed movement of water in a sea or river.***
8. ***When a small fish eats something that is a toxin, the poison becomes more concentrated in the bigger fish which eats that smaller fish. This is called biomagnification.***
9. ***When we convert waste into a reusable material, this is called recycling.***
10. ***The verb “to find” appears as “found” in the past tense, but the verb “to found” is different and refers to when a person starts an organization. In the past tense, “to found” appears as “founded.”***
11. ***When a biological or chemical material naturally breaks into smaller pieces, it decomposes.***

# Activity E: Podcast Listening

*(Page 10 in student workbook)*

*Listen to the podcast about plastic pollution in the oceans two times and take notes.*

**Answers will vary.**

# 

# Activity F: Comprehension Questions

*(Page 11 in student workbook)*

*Answer the following comprehension questions with a partner or in small groups. Take notes so you can share your answers with the class:*

1. ***How does the decomposition time of plastic compare to materials like paper and metal?***

**Plastic is a material, and it takes a very long time to decompose, longer**

**than paper and longer than metal.**

1. ***According to the podcast, how does plastic pollution affect marine life and humans? Which biological processes are involved? Does this harm humans or fish more?***

**Marine animals, such as whales, seabirds, and turtles, have been discovered dead from the high number of plastic particles that they consume when they are trying to eat. The plastic harms humans too because the toxic chemicals that fish eat become more concentrated in the animals which eat the fish, including humans, in a process called biomagnification. According to the podcast it harms humans more.**

1. ***What is the Great Pacific Garbage Patch, as mentioned in the podcast? How is it formed?***

**Pieces of plastic in earth’s oceans are reduced to smaller pieces by waves and ocean currents which then form groups with a high density of plastic, such as the Great Pacific Garbage Patch.**

1. ***What event inspired Boyan Slat to focus on solving the issue of plastic pollution?***

**Plastic is a material, and it takes a very long time to decompose, longer**

**than paper and longer than metal.**

1. ***What is the phrase that comes from the “Three Rs?” Which one is most important to you? Why?***

**Answers will vary.**

# 

# Activity G: Extension Task

*(Page 12 in student workbook)*

*Watch the following video of Boyan Slat’s TEDx Talk from his younger years and think about how it affects you personally.*

<https://www.youtube.com/watch?v=ROW9F-c0kIQ>

# 

# Activity H: Small Group Discussion

*(Page 12-13 in student workbook)*

*Join a group of 4-5 students and answer the following questions together:*

1. ***How did the information in the TEDx Talk by Boyan Slat differ from what was discussed in the podcast? Were there any contrasting points or new insights?***

**Answers will vary.**

1. ***After listening to the TEDx Talk and the podcast, which aspects of the plastic pollution issue feel most relevant or urgent to you personally? Why?***

**Answers will vary.**

1. ***How do the solutions proposed by Boyan Slat in his TEDx Talk have the potential to impact global efforts against plastic pollution? Are there any limitations?***

**Answers will vary.**

1. ***Boyan Slat started The Ocean Cleanup at a very young age. How does his story inspire you when thinking about your own potential to contribute to environmental solutions?***

**Answers will vary.**

1. ***With your group, come up with an innovative method people could adopt to better avoid polluting the planet with plastic and write it down. Be prepared to share it.***

**Answers will vary.**

# Activity I: Reflection Task

*(Page 14 in student workbook)*

*Listen to the music video entitled ‘Beyond the Sea’ and think of reasons why we might want to preserve the world’s oceans.*

https://www.youtube.com/watch?v=ta3jHcbslQw

**Answers will vary.**