Coastcare Victoria School Kit

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| Seaweed Solutions for Sustainable Futures Worksheet |



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Acknowledgements

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# Seaweed Solutions for Sustainable Futures Quiz

1. Aunty Judy explained that seaweeds were important because they
2. Provide food for fish
3. Feed the environment
4. Clean the waterways
5. All of the above
6. Zoe talks about Aboriginal uses of seaweeds. Which of these was not listed?
7. Food and medicine
8. Building houses
9. Packaging products
10. Clothing and ceremony
11. What animals were fed seaweeds in the video?
12. Chickens
13. Cows
14. Pigs
15. Horses
16. Aunty Judy’s knowledge was passed on through her
17. Ancestors
18. Friends
19. Grandpa
20. Connection to country
21. What advantage might there be in using seaweed instead of plastic?
22. Cheaper
23. Biodegrades faster
24. Faster to make
25. All of the above
26. Finish this sentence from the video. “Each piece of land has a unique \_\_\_\_\_\_”
27. Smell
28. Taste
29. Culture
30. Temperature
31. What did Zoe think wasn’t already a big part of the Australian identity?
32. Being beach lovers
33. Having lots of seaweed
34. Surfing fans
35. Beautiful natural clean environment

1. Why did Lichen Kelp start the portable seaweed library?
2. To keep fit
3. There wasn’t much information on the internet
4. She wasn’t much of a reader
5. Research as a group would be more fun
6. Lichen Kelp liked to think of her portable seaweed library as a
7. Ocean portal
8. Wormhole
9. Fast ride
10. Seafood database
11. What type of food was being made from seaweed in the video?
12. Seaweed pasta
13. Seaweed pizza
14. Seaweed burger
15. Seaweed fries

# Local Languages

Step 1: Who are the Traditional Owners of the lands that you are learning on today?

Step 2: Visit the [50 words project website](https://50words.online/) to find and write the spelling for Australian Indigenous words for these five English words in the boxes on the left.

Step 3. Use the website to listen to the pronunciation of the words. In the boxes on the right, write how these words sound to you.

|  |  |  |
| --- | --- | --- |
| **Word** | **Australian Indigenous Spelling** | **Sounds Like** |
| **Hello** |  |  |
| **Let’s go** |  |  |
| **Fish** |  |  |
| **Water** |  |  |
| **Sky** |  |  |

# Seaweed Biodiversity

1. Visit the [Port Phillip Bay Taxonomists Toolkit](https://portphillipmarinelife.net.au/search?searchType=Species&sortType=HigherTaxonomy&pagingSize=100000&page=1&fi=25).

2. Click species and under the species group list on the left click "seaweeds and seagrasses"

3. There are three main types of seaweeds. What is the main colour of these groups?

Chlorophyta

Ochrophyta

Rhodophyta

4. Choose one seaweed species from each group and answer the following questions. You may need to click "View Scientific Details" for more information.

A)

|  |  |
| --- | --- |
| Common name |  |
| Scientific Name |  |
| Phylum |  |
| Maximum Size |  |
| Habitat |  |
| Diet |  |

B)

|  |  |
| --- | --- |
| **Common name** |  |
| **Scientific Name** |  |
| **Phylum** |  |
| **Maximum Size** |  |
| **Habitat** |  |
| **Diet** |  |

C)

|  |  |
| --- | --- |
| **Common name** |  |
| **Scientific Name** |  |
| **Phylum** |  |
| **Maximum Size** |  |
| **Habitat** |  |
| **Diet** |  |

5. What do all three species have in common?

6. Write two new words from the website and look up their definitions.

# Profile Worksheet

**Name:**

**Future Job title:**

**Organisation:**

**What might you love about this job?**

**Who might be a good mentor?**

**How might you get your job?**

**How could volunteering help your career?**

**How does sustainable thinking impact what you do?**

**Why is having a healthy environment important to you?**

# Modern Uses of Seaweed

In this investigation, you will visit the websites of several seaweed organisations to find out what seaweed species are being used, what products are being made, and the benefits of these products to people and/or the environment.

There is also a blank space for you to find information about two other organisations utilising seaweed.

|  |  |  |  |
| --- | --- | --- | --- |
| **Organisation** | **Seaweed Type** | **Products** | **Benefits** |
| [Sea Forest](https://www.seaforest.com.au/) |  |  |  |
| [Phyco Health](https://www.phycohealth.com/blogs/news/seaweed-for-the-planet) |  |  |  |
| [Notpla](https://www.notpla.com/frequently-asked-questions/) |  |  |  |
|  |  |  |  |
|  |  |  |  |

# International Use of Edible Seaweed

Many cultures around the world have had a long history of consuming seaweed in their cuisine. In this activity, you will research the various seaweed dishes and species used from around the world.

|  |  |  |  |
| --- | --- | --- | --- |
| **Seaweed Name** | **Food Uses** | **Country of Origin** | **Seaweed type and species name** |
| **Nori** |  |  |  |
| **Wakame** |  |  |  |
| **Kombu** |  |  |  |
| **Dulse** |  |  |  |
| **Irish Moss** |  |  |  |
| **Cochayuyo** |  |  |  |

# Seaweed Review Quiz

1. What are the three main seaweed groups? (3 marks)
2. What are three things that all seaweeds have in common? (3 marks)

1. Which species of seaweed grows right across southern Australia and helps form the Great Southern Reef? (1 mark)
2. Describe two ways that Aboriginal Australians traditionally used seaweed. (2 marks)
3. Describe three ways that seaweeds are being used in emerging modern industries in Australia. (3 marks)