

# Porci's Ocean Patrol Activity Sheet



## Series 1: Episode 10 – Notes for Educators

### Introduction

Welcome to Series 1: Episode 10 of Porci's Ocean Patrol (POP), a short, beautifully animated video that educates Reception to Year 4 students about the 'Great Southern Reef'.

Porci's Ocean Patrol is a Marine Discovery Centre project and can be accessed on YouTube and the Marine Discovery Centre website:

<https://www.marinediscoverycentre.com.au/porci-s-ocean-patrol>

These notes provide an outline of what young viewers can expect to see and discover when they view Episode 10. They also include key Episode 10 information to assist with student learning.

General introductory information relating to Porci's Ocean Patrol, and the presenters who appear in the videos, can be found on the Marine Discovery Centre website.

Let's get started!

### Series 1: Episode 10 (Run time – 8 minutes and 38seconds)

Episode 10 begins with a short, general introduction for students to the 'Great Southern Reef', located off the coast of South Australia, and to the creatures that exist from the surface to the bottom of the ocean.

This episode (as with all future episodes) has three major themes:

THEMES	EPISODE 10 TOPICS	RUN TIMES
1. About the culture of the Kurna people from the Adelaide Plains area.	Kurna Dance	0:35 to 2:55 minutes
2. Tips for keeping the ocean healthy that everyone can do.	Do Oceans Freeze	2:59 to 5:28 minutes
3. Information about the sea creatures living in the ocean.	Dolphins in SA Sanctuary	5:30 to 7:29 minutes

'Ocean Patrollers' (students) are also invited to send their questions to Porci.

### Question 1 (52 seconds into the episode)

Ocean Patroller, Evie, asks the first question:

*"I love dancing, what dances did Aboriginal people use to do?"*

Karno explains that Aboriginal people have a rich tradition of dancing. They have dances for celebrations, storytelling, and ceremonies. Karno tells us that dances are used to celebrate the stories of people, the places, the animals, and the spirit that connects us all. He describes how

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dancers would paint themselves with beautiful designs and move to the rhythm of the didgeridoo and clap sticks.

Karno explains and demonstrates one of the dances where the movements of a kangaroo are mimicked by hopping and bounding across the ground. Another dance he explains and demonstrates is the emu dance where you strut and flap your arms like the majestic bird.

Karno informs us how each dance tells a story and connects Aboriginal people to their culture, the land, and the sea country.

## **Question 2** (2 minutes and 59 seconds into the episode)

Ocean Patroller, Jack, asks the second question:

*“How come oceans don't freeze?”*

Georgie explains how the ocean water is salty, and that it is this saltiness that affects the freezing point of the water. Freshwater will freeze at 0 degrees Celsius whereas the ocean water needs to get down to at least minus 2 degrees Celsius before it will freeze to ice. The salt that is dissolved within the water gets in the way of ice formations.

Georgie lets us know that icebergs, glaciers, and ice sheets are made up of frozen freshwater that floats or sits on top of the oceans. Around 15% of the oceans are covered by ice.

Georgie explains that cold water can hold more oxygen than warmer water and is also heavier. The temperature of the water is one of the reasons that currents can be formed. This is because as the water cools down, it will sink, and then the other water will slowly come over to replace it. She then explains how as the primary mixing zone between the world's major oceans, the Southern Ocean plays an important role in the circulation of water around the globe.

Georgie tells us that Antarctica's nutrient-rich waters are important for phytoplankton blooms and krill, this is an important food source for the whales. Although not all oceans are icy, at the equator where it is sunny and hot, there are tropical waters. In between the hot and cold waters, the ocean's temperature changes like the weather does outside your window.

## **Question 3** (5 minutes and 30 seconds into the episode)

Ocean Patroller, Jayden, asks the third question:

*“What dolphins are in South Australia and how can we look after them?”*

Porci tells us that we have three species of dolphins that we find here in South Australia. These are the common bottlenose dolphin, the Indo-Pacific bottlenose dolphin, and the short-beaked common dolphin. The three species will hang out in different areas, some inshore and some in the deeper waters. Porci states that in the Adelaide Dolphin Sanctuary, there are about 30 bottlenose dolphins, and there are more than 400 Indo-Pacific dolphins that drop by at different times.

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Porci explains that dolphins are very smart and sociable, and they can live up to 40 years old! Dolphins live in groups called a pod with up to 15 other dolphins. The pod will hunt, play, and help protect each other. Dolphins have excellent vision above and below the water and they can dive to depths of over 500 meters.

Porci informs us that pollution, stormwater, and rubbish can mess up the dolphin's food and make their life very hard! We can help by NOT feeding the dolphins because they are very good at catching their own food and we do not want them to eat something that might be bad for them.

Porci shares that we can help keep the ocean clean by putting our litter in the bin where it belongs. When fishing, we should reel in our lines if there are dolphins around and when out on the water, give our dolphins some space. They are wild animals so do not like to feel crowded.

## POP Quiz Questions

Following the three Ocean Patrollers' questions, there are two quick multiple choice POP quiz questions for students. Below are the questions and answers highlighted in blue:

1. How many species of dolphin are found in South Australia?
  - A. 300
  - B. 3
  - C. 3000
2. What makes oceanwater harder to freeze?
  - A. Salt
  - B. Dolphins
  - C. Sunshine
  - D. Litter

## Asking Questions

Student Ocean Patrollers are invited to ask Porci questions. Submit any student questions using the following link:

<https://www.marinediscoverycentre.com.au/porci-s-ocean-patrol/ask-porci>

## Facts for Students

A fact sheet for students has also been developed, and provided in PDF format, as a support document for 'Porci's Ocean Patrol' – Series1, Episode 10.

## Activity Sheets

A range of activity sheets have been developed to complement the video and student facts. These cover Foundation to Year 4 learning levels (with many providing two levels of difficulty) and focus on the English, HASS and Science learning areas.