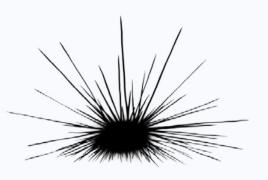
CARRIBEAN SPECIES



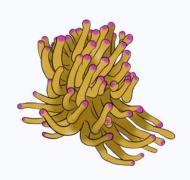
Lionfish (invasive)



Green sea turtle



Long-spined sea urchin



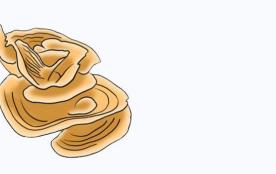
Sea anemone



Sea fan



Yellow tube sponges



Lettuce coral



Pillar coral



Great star coral



Elkhorn coral Staghorn coral

Symmetrical brain coral





NAME:

SCHOOL:

KEY TERMS

CCMI educators and hosts will refer to important key terms in each episode, which will be explained throughout each broadcast.

Adaptation - changes in a living being's shape or behaviour that improves its ability to survive; these changes are passed on to future generations through the organism's genes

Benthic - bottom of the ocean or the bottom of any other large body of water

Camouflage - colour and/or patterns of an organism that helps it to blend in with the surrounding environment

Climate change - change in global weather patterns over time, largely due to increased carbon dioxide in the atmosphere as the result of human activities

Coral bleaching - process of corals appearing white, due to the loss of the algae living inside of them

Coral nursery - place where scientists grow corals underwater on specialized structures, with the goal of replenishing depleted coral reefs from what is grown in these places

Ecosystem - community of living organisms interacting with their physical environment within a specific area, forming a complex network

Endemic - native to and only found in a limited geographic region

Keystone species - a species that has a big impact on its ecosystem because if it were to disappear, it would cause major changes and problems for the rest of the system

Marine Protected Areas (MPAs) - sections of the ocean which are partitioned off from certain human activities for the protection of resources

Mesophotic reef - coral ecosystem that exists in tropical and subtropical waters between shallow, well-lit areas and the ocean's deepest, darkest depths

Nutrient cycle - movement and exchange of living and non-living material through one or more organisms and into the environment, as it contributes to continued production of living matter

Restoration - renewal of a damaged, degraded, or destroyed ecosystem by active human intervention

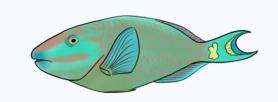
Scientific method - the process of discovering facts through testing and experimentation. The basic process involves making an observation, forming a hypothesis, making a prediction, conducting an experiment and analyzing the results.

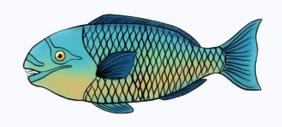
Seamount - underwater mountain formed by volcanic activity; rises from the ocean floor but does not reach the water's surface

Threat - something with the intention to cause harm

CARRIBEAN SPECIES







Nassau grouper

Stoplight parrotfish

Princess parrotfish



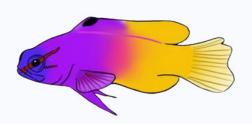


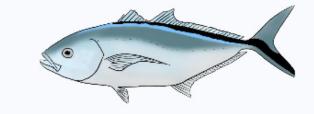


Sergeant major

Yellowtail damselfish

Foureye butterflyfish



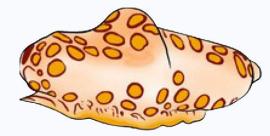




Fairy basslet

Bar jack

Black durgon





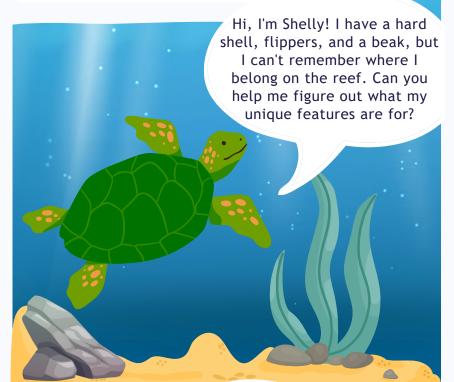


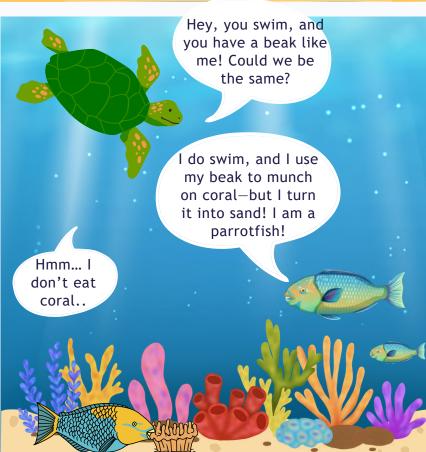
Flamingo tongue

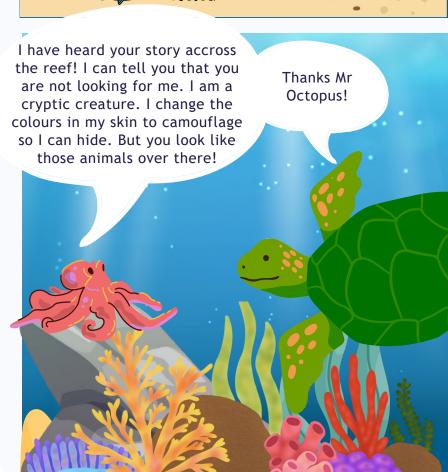
Lettuce slug

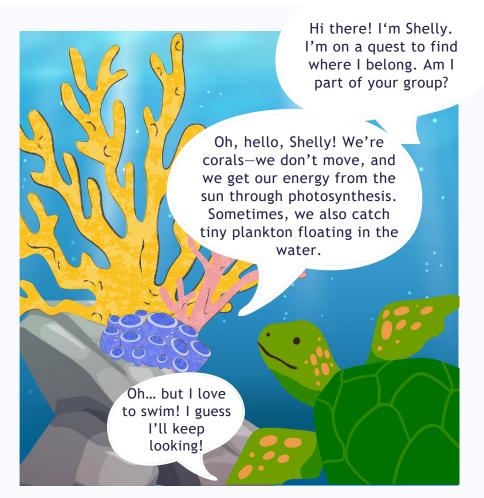
Headshield slug

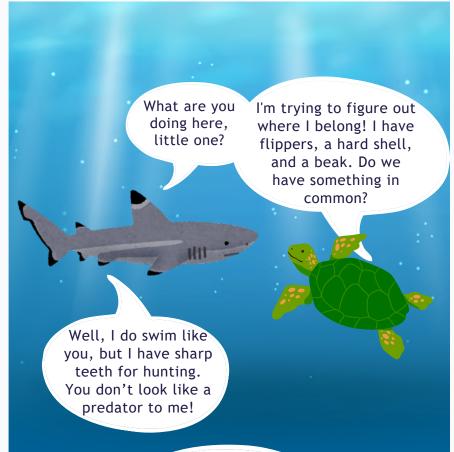
THE STORY OF SHELLY THE TURTLE













DEAR TOMORROW...

YOUR MISSION!

Inspired by the DearTomorrow campaign, write a letter to your future self or to someone very important in your life about how you promise to help the ocean and fight climate change!

Think of a person important in your life - your child, a friend, a family member or your future self. Imagine it is the year 2050, and they receive a message from you, which was written today. In the box below:

- Share your thoughts about climate change and
- Your hopes for the future of the oceans and
- Your promise to take bold climate action today to ensure they have a safe and healthy world

DEAR _____



HAVE YOU COMPLETED YOUR PLEDGE?
WE WOULD LOVE TO HEAR FROM YOU!
SHARE ON SOCIAL MEDIA AND TAG
@REEFRESEARCH #DEARTOMORROW

reefresearch.org info@reefresearch.org @reefresearch







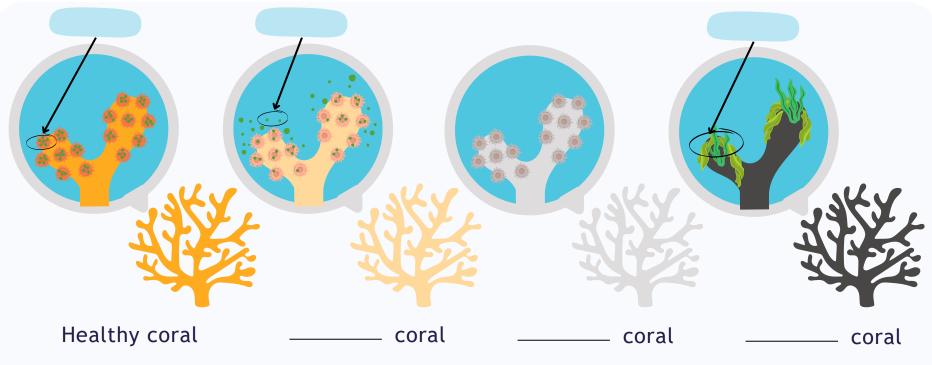
EPISODE 1 - SEAMOUNTS

How are seamounts formed?	
What is a biodiversity hotspot? What features	of a seamount make them good hotspots?
Complete the sentences by filling in the blanks overfishing sponges protect	
Seamounts are underwater that d brings nutrient rich water to these	on't quite reach the surface. The process of areas. This attracts small plankton feeding
animals such as fish, corals, In turn	
even sharks, turtles and whales. The varie	
MPAs can help seamou	nts from threats such as
As explained in the episode, Marine Protected protect our ocean habitats. Use the boxes beloinside an MPA and one that is not to show how can include animals and plants as well as pote	ow to draw a seamount ecosystem that is the environment might be different. you
MPA	No MPA

EPISODE 4 - WORLD OCEAN DAY: CLIMATE CHANGE AND OUR OCEAN

What is climate change and what causes it?		
How can you, along with the rest of the world, work together to address the factors contributing to climate change? Add one more environmental issue to the list at the end of the table!		
What I can do	What the world can do	
	nate change? Add one more enviro	

EPISODE 3 - ENDANGERED CORALS: FINDING AND RESTORING RARE CORAL SPECIES



Fill in the blanks using the correct word below:

algae polyp bleached zooxanthellae stressed dead

What is a coral nursery?

CORAL RESTORATION MAZE

- 1. Follow the correct path through the maze to help a baby coral fragment travel from the nursery to the reef.
- 2. Along the way, you will encounter obstacles:
 - hurricanes
 - algae overgrowth
 - coral disease

If you hit one, you must explain how scientists help corals overcome these challenges before continuing. Only explain the ones on the right path! 6:



EPISODE 2 - CRYPTIC CREATURES OF THE REEF

The creatures in the ocean have many different adaptations to their environments. This includes the things they eat. Draw lines between the boxes below to match the type of feeding strategy to the definitions.

Herbivore

Detritivore

Carnivore

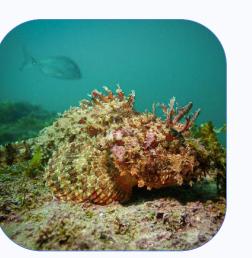
An animal that eats dead organic matter

An animal that eats other animals

An animal that eats plants









All these creatures have adaptations to make them camouflaged on the reef. Write the name of each animal below the picture of that animal in the top bubble. Then write the adaptations of that animal in the second bubble.

- A. Scorpionfish
- B. Sea slug
- C. Sea cucumber
- D. Octopus

- 1. Toxins and bright colours to prevent being eaten
- 2. Can change colour to match their environment
- 3. Move slowly along the sand with similar colours
- 4. Camouflaged to look like a rock, with deadly venom

