

LEBUU'S VOYAGE

WORKSHEET

Q1 What is a Large-Scale Marine Protected Area (LSMPA)?
Why are LSMPAs important?

Q2 What are the main goals of the Palau National Marine Sanctuary (PNMS)?

Q3 Why is it important that we explore the deep-sea habitats and geological features in the Palau National Marine Sanctuary?

Q4 In 2021, in collaboration with National Geographic Society, the Palau International Coral Reef Center used a deep-sea camera system to explore Palau's seafloor. The camera captured footage, at just over 4,000ft in depth, of a Pacific sleeper shark in Palau's waters for the first time. Pacific sleeper sharks are large, deep-water sharks. Their range was thought to extend from Taiwan in the south to within the Arctic Circle in the north. This observation, coupled with an observation in the Solomon Islands using the same technology, extends their known range 2,000 nautical miles to the south.

**What other yet-to-be-discovered animals do you think inhabit Palau's deep ocean?
How do you think they may look, move, or see in the dark?**

Q5 Imagine you're "seeing" through the eyes of the ROV during a 10-to-20-hour dive in the PNMS. The ROV descends to 13,000 ft below the surface of the ocean.

Write a travel story about what you find.

What colors and light do you see? What surprising or strange animals exist in deep-ocean? How does the blue zone during the descent and ascent compare to the ocean floor?

Q6 Why is seafloor mapping important in ocean exploration? What specific habitats and geological features do you think will be mapped in Palau?

Q7 Ocean explorers can be scientists, educators, ROV pilots, videographers, engineers, chefs, cultural liaisons, navigators, and more.

**Would you like to be an ocean explorer?
What career in ocean exploration would you like to pursue and why?**

Q8 What questions would you like to ask an ocean explorer?

Q9 In support of Lebuu's Voyage I & II, the learning resource, **Omesubel a Kedarm**—Ocean exploration terms in Palauan language, was developed. This resource has been certified by the Palauan Language Commission. Match the Palauan Ocean Terms with the English Ocean Terms.

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|---------------------------------------|---|--|
| Daob | ● | Remotely Operated Vehicle (ROV) |
| Chedesaoch | ● | Sponge |
| Diall er a omesuub | ● | Squid |
| Mlai er a omesuub | ● | Seabird |
| Rois er a bertakl | ● | Ocean |
| Merangd er a toachel | ● | Ship, Exploration Vessel |
| Rurout | ● | Seamount |
| Ngikel | ● | Wave |
| Chedeng | ● | Ecosystem |
| Luut | ● | Deep water coral |
| Suebek el charm er a daob | ● | Jellyfish |
| Uldekial a kakerous el klengar | ● | Shark |
| Chedead | ● | Fish |