Worksheet 1: "Introduction to Tide Pools and Intertidal Zones"

Objective: Explore the basic concepts of tide pools, intertidal zones, and their connection to the moon.

Fill in the Blanks:

Watch the "Tide Pools" video and complete the sentences by filling in the blanks with the appropriate terms.

a. Tide pools are ecosystems that have habitats revealed by outgoing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

b. The location where the ocean meets the land is known as the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

c. Tide charts allow us to determine what time of the day a tide will \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Diagram Creation:

Create a diagram or illustration representing the intertidal zone, highlighting the key features mentioned in the video.

Include labels and captions to explain the concepts of tide pools, intertidal zones, and their connection to the moon.

Worksheet 2: "Life in Tide Pools - Organisms and Adaptations"

Objective: Explore the diverse organisms found in tide pools and their unique adaptations.

Organism Matching:

Match the organisms mentioned in the video with their descriptions or characteristics.

a. Barnacles

b. Mussels

c. Starburst Anemones

d. Hermit Crabs

e. Rock Crabs

Descriptions:

Secrete a strong glue to stay attached to rocks.

Use a threadlike fiber to stay attached to rocks.

Use stinging tentacles to hunt and a muscular tube-like structure to move.

Use snail shells for protection and shelter.

Act as the "garbage man" of the environment, eating plankton, algae, and decaying matter.

Adaptations and Survival:

Choose one organism from the list and describe its unique adaptations that help it survive in the tide pool environment.

Reflect on how these adaptations contribute to the organism's role in the ecosystem.

Worksheet 3: "Climate Change and Tide Pool Ecosystems"

Objective: Understand the impact of climate change on tide pool ecosystems.

Discussion and Reflection:

Reflect on the information from the "Tide Pools" video regarding the impact of climate change on tide pool ecosystems.

Discuss in small groups or as a class how climate change, ocean acidification, and excess CO2 affect the organisms in tide pools.

Ecosystem Awareness:

Research and identify one specific impact of climate change on tide pool ecosystems.

Create a brief presentation or infographic to raise awareness about the importance of preserving these ecosystems in the face of environmental challenges.