

Explicit vs. Implicit Information

Read the passage carefully.

The Changing Shoreline

Coastal erosion occurs when waves, currents, wind, or human activity gradually remove soil and rock from the shoreline. Although erosion is a natural process, researchers have observed that some coastal areas are losing land at a faster rate than they did in the past. Rising sea levels and stronger storm activity can increase the amount of water reaching vulnerable sections of the coast.

In one coastal community, researchers recorded shoreline measurements over a ten-year period. Their data showed that the shoreline had moved inland by approximately 1.5 metres in some areas. Sections protected by mangroves experienced less movement than areas where the vegetation had been removed. The researchers also noted that several buildings had been constructed close to the water during the same period.

The researchers recommended restoring mangrove vegetation and limiting new construction in areas considered highly vulnerable to erosion. They emphasized, however, that shoreline movement varies from one location to another and that long-term monitoring is necessary before drawing conclusions about the causes of change.

Questions

1. Identify TWO pieces of information that are explicitly stated in the passage.
(2 points)

a. _____

b. _____

2. What can be inferred about the role of mangroves in protecting the shoreline?
Use evidence from the passage to support your answer. (2 points)

3. The passage states that some areas of the shoreline moved inland by 1.5 metres. What can you conclude about the possible impact of this change on the community? (3 points)

4. The researchers recommend limiting new construction in highly vulnerable areas. What information from the passage helps explain this recommendation? (2 points)

5. Complete the chart by explaining what each type of information is. (2 points)

Explicit Information	Implicit Information

6. Why do you think the researchers were careful to state that “shoreline movement varies from one location to another”? What does this suggest about drawing conclusions from scientific data? (3 points)

7. What does the word “vulnerable” mean as it is used in the passage? Use clues from the passage to explain your answer. (2 points)