1. Which of the following causes tides?

The sun

The moon

The wind

The rain

1. The location where the tide meets the land is known as the

Bitidal zone

Bicoastal zone

Intertidal zone

Intercostal zone

1. Barnacles eat

Coastal plants

Plankton

Marine insects

Small fish

1. Mussels are an example of

Filter feeders

Oyster food

Extremophiles

Anaerobes

1. How do barnacles and mussels attach to rocks?

Barnacles secrete a strong cement-like glue substance to tightly anchor them to to the rock, while mussels use a thread-like fiber that keeps them loosely attached to the rock

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Barnacles use numerous suction cups on their feet to tightly anchor them to to the rock, while mussels use special claw-like structures to dig into cracks within the rock

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1. How do starburst anemones obtain nutrients?

They perform photosynthesis during times of low tide

They use specialized limbs to attach & absorb nutrients from dying organisms

They use stinging tentacles to hunt their prey  
They filter plankton through their shells

1. What makes hermit crabs unique?

They have only three legs

They inhabit the shells of other organisms

They can survive up to three months with no food or water

They have specialized gill-like structures that allow them to breath underwater

1. Which of the following act as the garbageman of the tide pool?

Hermit crabs

Rock crabs

Fiddler crabs

Horsehair crabs

1. How does ocean acidification harm organisms living in tide pools?

It makes it difficult to produce the carbonate ions necessary for their shells

It kills certain species of plankton, making it harder for tide pool organisms to obtain nutrients

It directly harms the skin & organs of tide pool organisms

It changes the migration pattern of predators, increasing the risk of predation for tide pool organisms

1. Approximately what percent of Earth is covered by water?

30%

50%

70%

90%

Open ended questions:

Is there a tide pool near where you live? What are some animals you might be able to see if you visited a tide pool?

Compare and contrast barnacles with mussels

How is climate change affecting tide pools? What are some policies that could help protect tide pools?