

Ray Mroch  
Brandon Puckett

Scoring rubric for ocean impacts survey:

Question: Discuss some ways your actions affect the ocean.

**0pts:** A one-word answer without any explanation or if it is ambiguous, irrelevant or incorrect.

Examples:

- Pollution (everyone knows about pollution. It doesn't display any depth of knowledge. Similar to responding with "food" when someone inquires about your favorite thing to eat)
- Litter
- Polluting the air (no link to the ocean, while we know that there is one, he/she didn't show that they understood it)

**1pt:** Names a type of impact or an effect of an impact, but not both

Examples:

- Pollution, littering, harsh chemicals
- Littering, building around oceans, air pollution, and cleaning up areas
- Pollution into rivers and lakes can affect the health of animals in the ocean over time
- Gasoline getting into storm sewers that lead to creek, then to ocean;
- Using the restroom in the ocean
- Riding in boats and releasing pollution directly to ocean

**2pts:** Names a cause and effect, but maybe not the linkage

Examples:

- Pollution can effect the purity of the water, it could contaminate or kill the animals (names the cause, pollution, as well as saying what polluted water does to the environment, this is a borderline 2).
- Overfishing - can fish a species to death, or dwindle food supply. Pollution - can poison environment and ecosystems (this is good, names 2 causes and effects, this is a high 2, but doesn't explain the linkage. So if this person would have written about how overfishing reduces the number of adults able to reproduce or recruit into an environment, it would be a 3, or even that nitrate pollution increases nutrients available to toxic algae)

**3pts:** Naming cause, effect, and linkage. Or otherwise writing a detailed explanation that shows good depth of knowledge.

Example:

- I enjoy eating seafood, so I may play a part in depleting certain fish populations -- my eating at least supports the fishing industry. I'm sure I generate a lot of dirty runoff material, which could end up polluting the ocean. As much as I love visiting the beach, I do know that my visiting could be changing the dynamics of our beaches, or at least contributing to an unnatural evolution.  
(demonstrated good level of knowledge, explained more than one concept and matched causes with effects. While not showing the linkages explicitly, provided detail on multiple concepts).
- The fish I eat come from the ocean and are no longer present in that ecosystem; the fish I eat may have been caught in a way that destroyed or incapacitated an oceanic ecosystem (states direct and indirect affects of actions)
- Vehicles on the sand (obstructing habitats), fishing (destroying species), CFC's heat up earth which could in turn heat waters up, kill animals, melt glaciers (our freshwater)

### **Scoring Results:**

- 215 total responses.
- 159 or 74% of responses graded indentially
- All but 1 response was within 1 point between graders
- Puckett scored 1 point higher than Ray 25 times.
- Mroch scored 1 point higher than Brandon 30 times.
- Puckett scored 1 response a 3, Mroch scored 4 responses a 3
- Puckett avg score: 1.25
- Mroch avg score: 1.28
- Avg difference (Puckett – Mroch) in score: - 0.03