

1106-Q5-2552 **Maria L Hernandez*** (hernandez@ncssm.edu), 1219 Broad Street, Durham, NC 27707.

Estimating Ocean Populations and Biodiversity in the Bay: An Algebra Activity.

In this session, we will share an activity focused on estimating populations of sea life in Chincoteague Bay, VA. Considering data collected at Wallops Island Field Station, we ask students to estimate the populations of sea creatures in various trophic levels. Then they use Simpson's Diversity Index to measure diversity in the bay. Making sense of the index calculation, leads us to a conversation about the behavior of various power functions. This interdisciplinary activity is appropriate for Algebra students. (Received September 16, 2014)