



## Environmental Sciences: Ocean Acidification

Paper citation: Dojiri SS, Dojiri M (2014). The Effects of Ocean Acidification on the Development and Calcification of the Larval Shells of the Red Abalone *Haliotis rufescens* Swainson, 1822. J Emerging Investigators 30: 1-6

Tansel DZ, Arreaza A, Tansel B (2014). Effect of pH Change on Exoskeletons of Selected Saltwater Organisms Which Rely on Calcium Fixation. J Emerging Investigators 16: 1-5

### Paper questions

*In reading through the assigned papers, please answer the following questions:*

1. What is the question being investigated by the researchers?
2. How do the two papers differ in their approach to learn how ocean acidification is affecting marine life?
3. What is the experimental readout (dependent variable) that the Dojiri and Dojiri use in their experiments?
4. What is the experimental readout (dependent variable) that the Tansel et al. use in their experiments?
5. One of the papers uses quantitative measures to assess changes in ocean organizations due to water acidification, and the other uses qualitative measures. Which approach do you appreciate more and why?
6. What were the results of the authors' experiments, and what is their interpretation?
7. Propose two follow-up experiments that could be performed given the data presented in this paper.