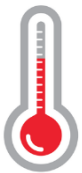


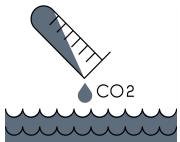
# CLIMATE CHANGE IN ANTARCTICA

Can Antarctic sea stars survive & acclimate to changing conditions?

Climate change is already changing the chemistry of oceans globally and polar ecosystems are going to feel its effects. Climate change will alter ecosystem structure and function at all levels and the plasticity of species to changes in their environment will be the determining factor in which animals are able to survive in a warmer, more acidic ocean.

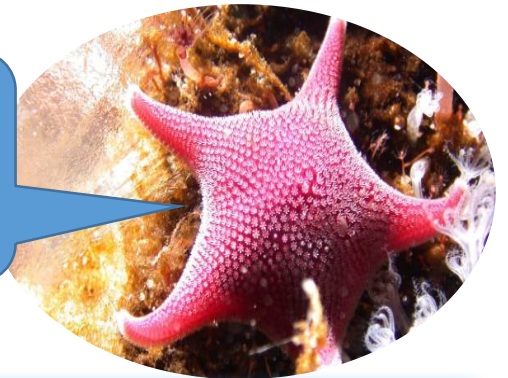


Temperature is an important factor in the ocean environment, determining what animals can survive in a given area



Ocean acidification is the lowering of sea water pH due to increased carbon dioxide levels in the ocean

I like temperatures of  
-1 degrees Celsius  
And pH conditions of  
around 7.9



## Aims:

- Measure the acclimation potential of Antarctic starfish to increased temperatures and pH
- Measure the acclimation potential of the sea star larvae and explore the relationship between parent life history and thermal tolerance of offspring

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