## Don't Clam Up – Lab Activity Data Sheet Hypothesis:

## Temperature Variable Group

	Beaker 1	Beaker 2	Beaker 3
Temperature (°C)			
Mass of Clam (g)			
Rate of			
Respiration (mL of			
O <sub>2</sub> )			

## **Body Mass Variable Group**

	Beaker 1	Beaker 2	Beaker 3
Temperature (°C)			
Mass of Clam (g)			
Rate of			
Respiration (mL of			
O <sub>2</sub> )			

## **Conclusion Questions:**

- 1. How are respiration, body mass, and temperature related?
- 2. How will climate change in the Arctic affect the respiration of the dominant bivalves that live there?
- 3. What could potentially happen to individual bivalve body mass and overall bivalve biomass with an increase in ocean temperature? (Hint: think carrying capacity!)
- 4. How will the change in biomass from question c affect animals like walrus and Spectacled Eiders?