**Case Study A**

**Instructions:**

1. What are the variables? Are they categorical or continuous?
2. Form a hypothesis about how the variables could be related (which is dependent, which is independent, why?).
3. Draw a graph of your predicted results.
4. Would you use a t-test or regression to test this?

**Case 1**

Climate scientists have noticed that the polar ice caps are melting more in the summers and refreezing less in the winters. There are also indications that extreme weather events (tornadoes, heat waves) are becoming more common.

**Case 2**

Many critters living in the water are eaten by both fish and insects. Fish predators are often gape–limited (they can only eat something up to a certain size). What do you think you would find if you compared growth rates in prey from ponds with and without fish?