

# SALESIAN

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## HIGH SCHOOL

Science/Math Department: Seniors

School Year: 2020/2021

### Assignment:

1. Student must access and read the following article: [Climate Change is Decimating the Chinstrap Penguins of Antarctica](#)
2. Based on the information in the article, your knowledge and understanding, please respond to the following questions for each content area. **Answers written must be a length of no less than one (1) paragraph (8 - 10 sentences). Students are able to write answers of longer length, if necessary.**

### Science

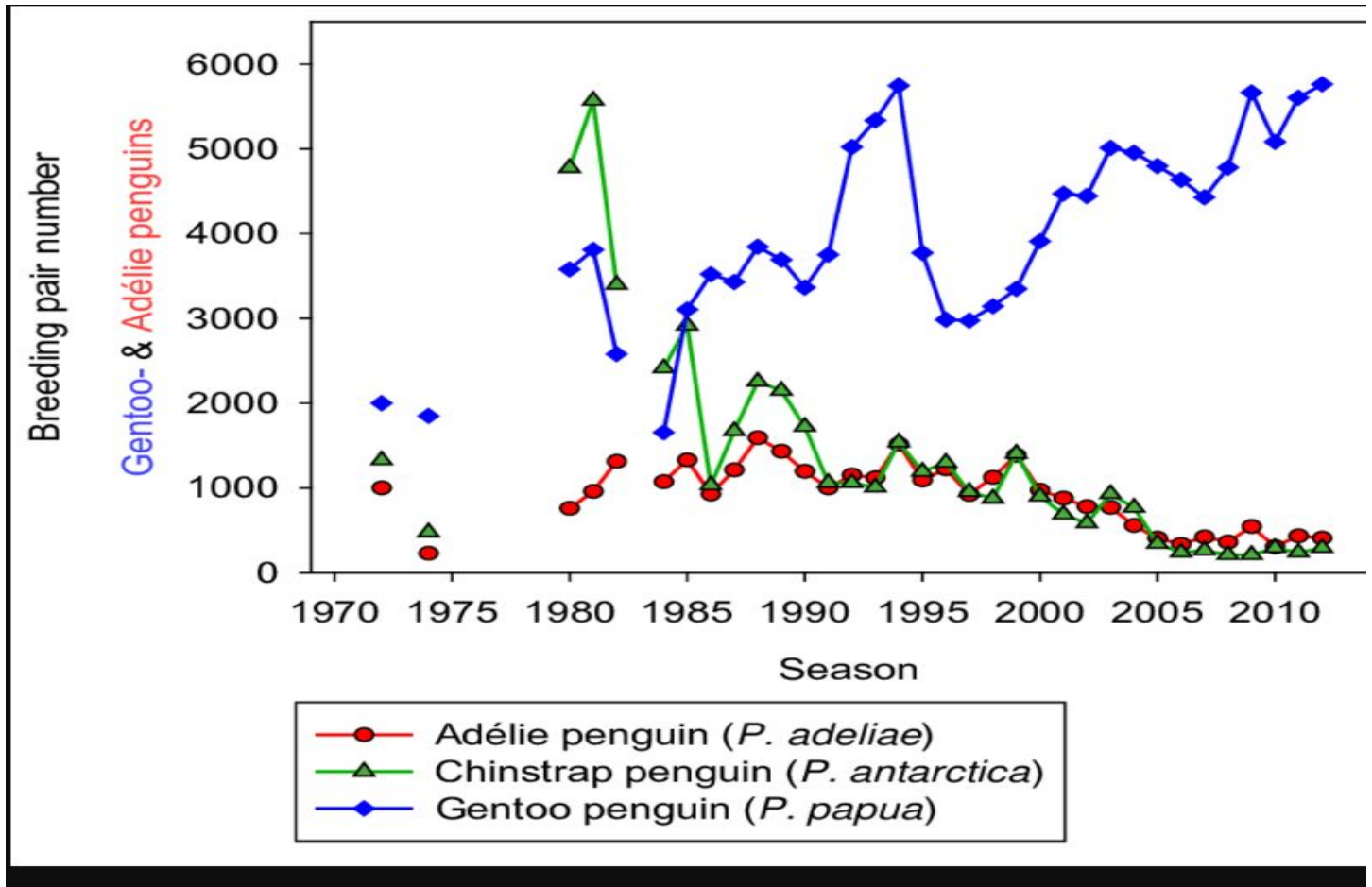
- The Chinstrap penguin's observable population decline in recent years due to Climate Change represents another addition to the long list of species affected by this phenomenon, including humans. The difference is while the Chinstrap penguin may lack the ability to adapt to rapidly changing conditions, humans do possess technological capacities to alter their landscape to their benefit.

In light of disappearing species, do you think humans are obligated to make the effort to slow/reverse the effects of Climate Change, or invest resources to adapt to changing conditions caused by Climate Change. Provide justification for your answer.

### Math

- The two graphs listed below provided similar information to the article. Which graph does a better job of conveying the information and why?
- Discuss the differences in the graphs, including the legend and axes.
- Do you think either of the graphs could benefit from a trend line being added? Why or why not?
- Are there any other types of graphs that you think could have done a better job at displaying the information?

# GRAPH A



# GRAPH B

## SHRINKING POPULATIONS OF ADÉLIE AND CHINSTRAP PENGUINS

Number of breeding pairs at study sites

- KEY
- Chinstrap penguins, Admiralty Bay of King George Island
  - Adélie penguins, Admiralty Bay
  - Chinstrap penguins, Cape Shirreff of Livingston Island

