

# TRACKING LOST ICE

Earth is heating at unprecedented rates. The visually-stunning film *IMAX presents The Last Glaciers* documents visual data of disappearing glaciers. Right now, the Antarctic is losing two *Titanics* worth of ice — more than 52,000 tons — every ten seconds, raising sea levels. How has ice loss changed over time? How does it impact human populations?

## PART 1

**Read** the data table below.

**Label** the x axis with the years.

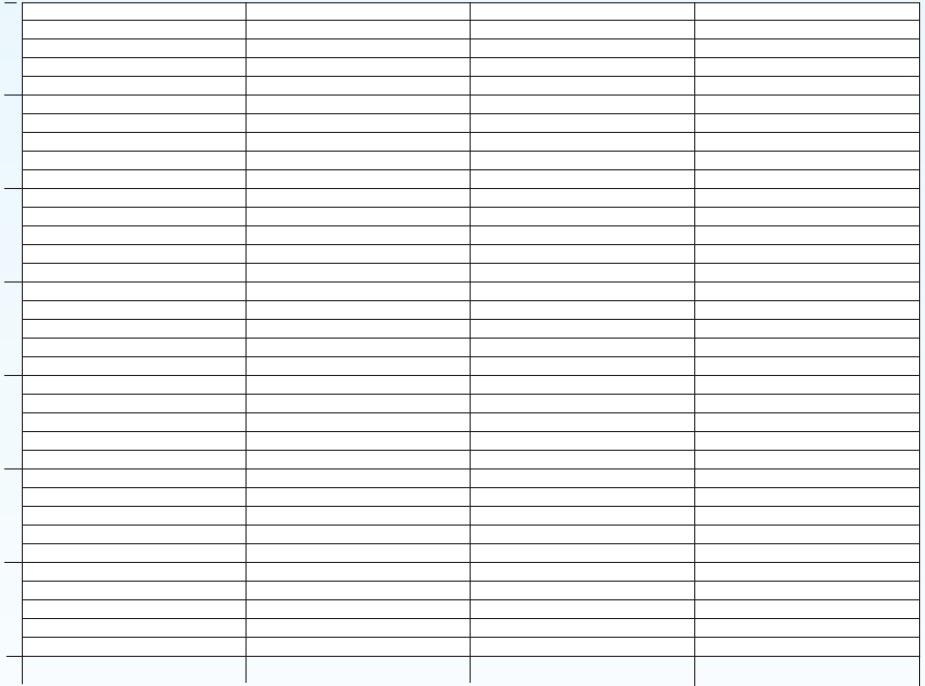
**Label** the y axis with the amount of ice lost (in inches).

**Create** a bar graph.

**Average Ice Loss from Glaciers<sup>1</sup>**

Year	Ice Lost
1980s	6.7 inches
1990s	18 inches
2000s	20 inches
2010-2018	33 inches

y-axis



x-axis

## PART 2

According to *IMAX presents The Last Glaciers*, 70 percent of the world's fresh water is held in glaciers. If the Antarctic ice melts completely, it will lead to a 50-60 meter (164-196 feet) sea rise.<sup>2</sup> Use the Sea Level Rise viewer at <https://coast.noaa.gov/slr/> to find cities that would be impacted with a 10-foot rise in sea level.

- Color in the areas on the map that would be underwater.
- Label three cities that would be submerged by sea level rise.
- Research the populations of those cities.

On the back of this sheet, create a chart to show how many climate refugees from each city would need new places to live. What's the total number?



<sup>1</sup> Source: NOAA, <https://www.climate.gov/news-features/understanding-climate/climate-change-global-sea-level>  
<sup>2</sup> Source: *The Last Glacier* (5.08-5.17) Jerome Chappeliez, National Center for Scientific Research

