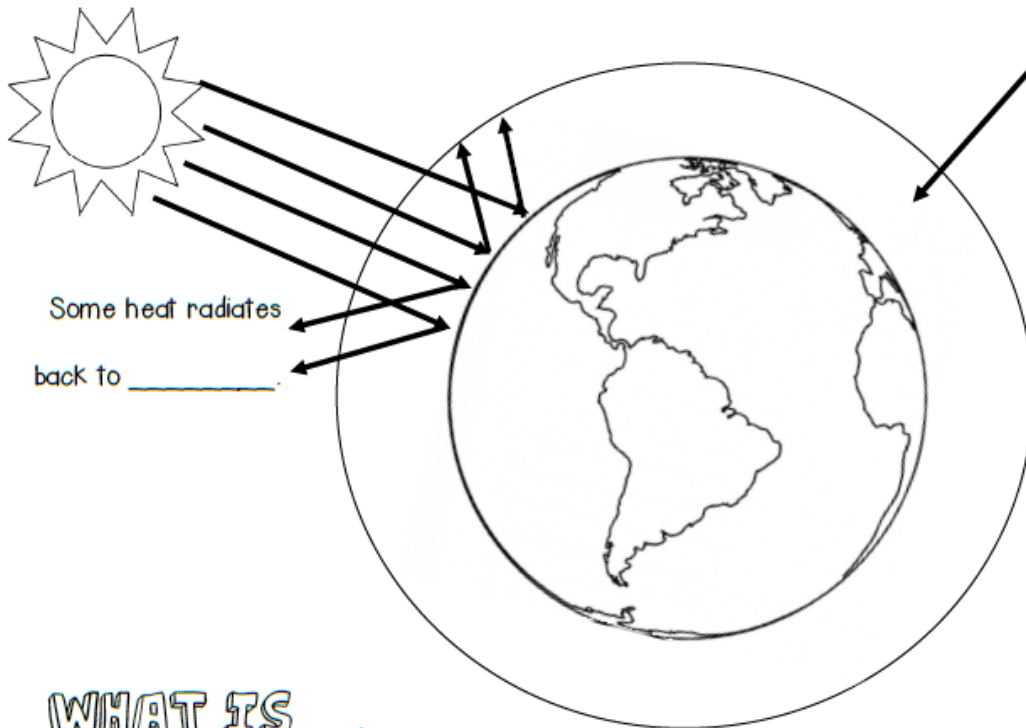


# WHAT IS THE GREENHOUSE EFFECT?

\_\_\_\_\_ passes through the atmosphere and \_\_\_\_\_ the Earth's surface.  
The heat hits the Earth and then is radiated back toward space. The \_\_\_\_\_ gas molecules in the atmosphere \_\_\_\_\_ most of the \_\_\_\_\_ and then send the heat in all directions. This \_\_\_\_\_ the surface of the Earth.



3 Greenhouse Gases are...

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Greenhouse gases make a thermal \_\_\_\_\_ around the Earth. \_\_\_\_\_ greenhouse gases mean heat is \_\_\_\_\_ and Earth is warmer.

## WHAT IS....

**A Greenhouse Gas:** Gases such as carbon dioxide and methane that \_\_\_\_\_

radiation from the \_\_\_\_\_ and \_\_\_\_\_ the heat in the atmosphere

**Global Climate:** The range of \_\_\_\_\_ that varies from region to region

**Global Warming:** A gradual \_\_\_\_\_ in temperature of the Earth's atmosphere caused by \_\_\_\_\_ and \_\_\_\_\_.

**Climate Change:** A \_\_\_\_\_ in a region's weather conditions

**Fossil Fuel:** Natural \_\_\_\_\_ formed from the \_\_\_\_\_ of living organisms.

Includes petroleum or \_\_\_\_\_, \_\_\_\_\_, and natural gas.

# Sea Levels Rising & Decline of Sea Ice

- Global \_\_\_\_\_ levels have risen \_\_\_\_\_ cm in the last 100 years. This is \_\_\_\_\_ the rise in the previous 100 years.
- Size and thickness of the Arctic sea \_\_\_\_\_ has \_\_\_\_\_. NASA data has shown that ice sheets in Greenland and Antarctica have decreased.

McCarty Glacier— Alaska

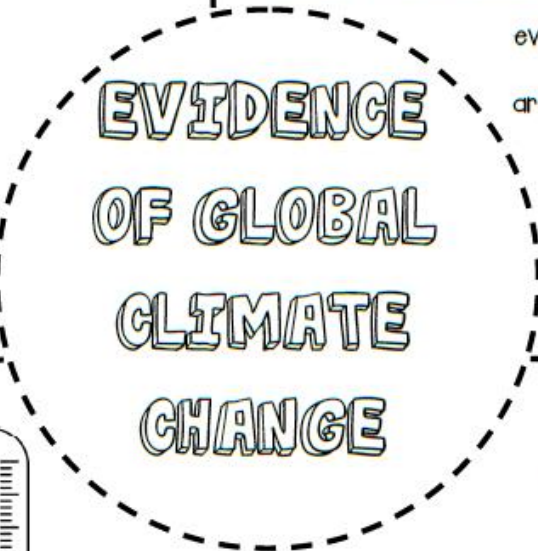


# Extreme Weather Events

- The intensity of North Atlantic \_\_\_\_\_ have increased in intensity and frequency.
- Changes in precipitation patterns- Temperatures \_\_\_\_\_ and more moisture \_\_\_\_\_ bringing more rain or snow. This is \_\_\_\_\_ spread

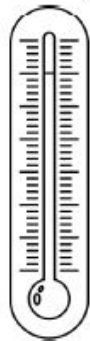


evenly around the globe. Some areas may get more \_\_\_\_\_ and some areas less.

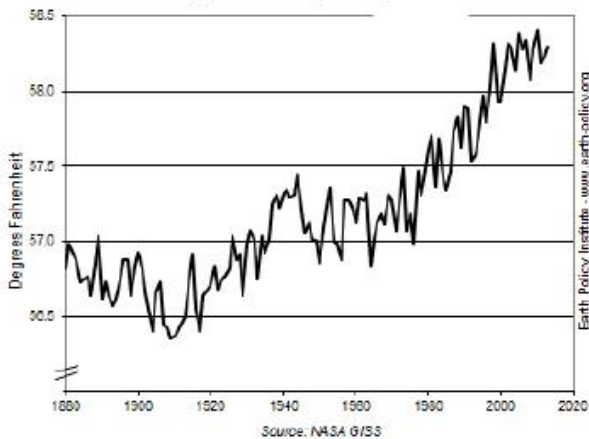


# Rise of Global Temperature

- The number of record \_\_\_\_\_ temperatures has \_\_\_\_\_.



Average Global Temperature, 1880-2013



# Ocean Acidification

The acidity of the surface ocean water has \_\_\_\_\_ 30% since the Industrial Revolution in the early 1800s. The \_\_\_\_\_ is \_\_\_\_\_ more and more \_\_\_\_\_ dioxide every year.

