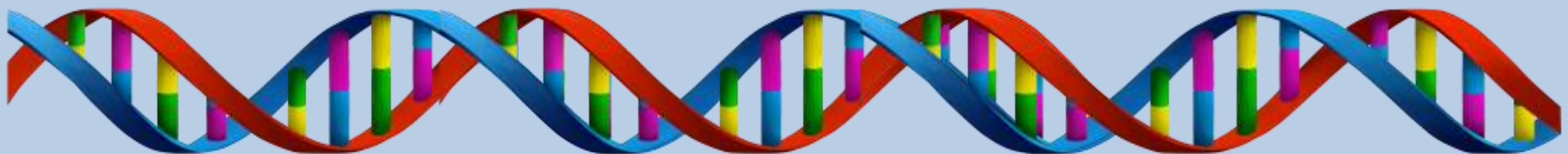




- 1. What is the anthropocene?**
- 2. Why are cows bad?**
- 3. What is a solution for the cow problem?**
- 4. Why is it NOT realistic to get rid of all the cows?**



Logistics

- **Unit 3 Assessment**
 - **FRIDAY, November 22nd**
 - **So far we have covered objectives 1-8**
 - **By the end of today we will have covered objectives 1-11**

Human Impact

- In your groups review the 8 kinds of human impacts we learned on Friday and describe **WHY THEY ARE HARMFUL**

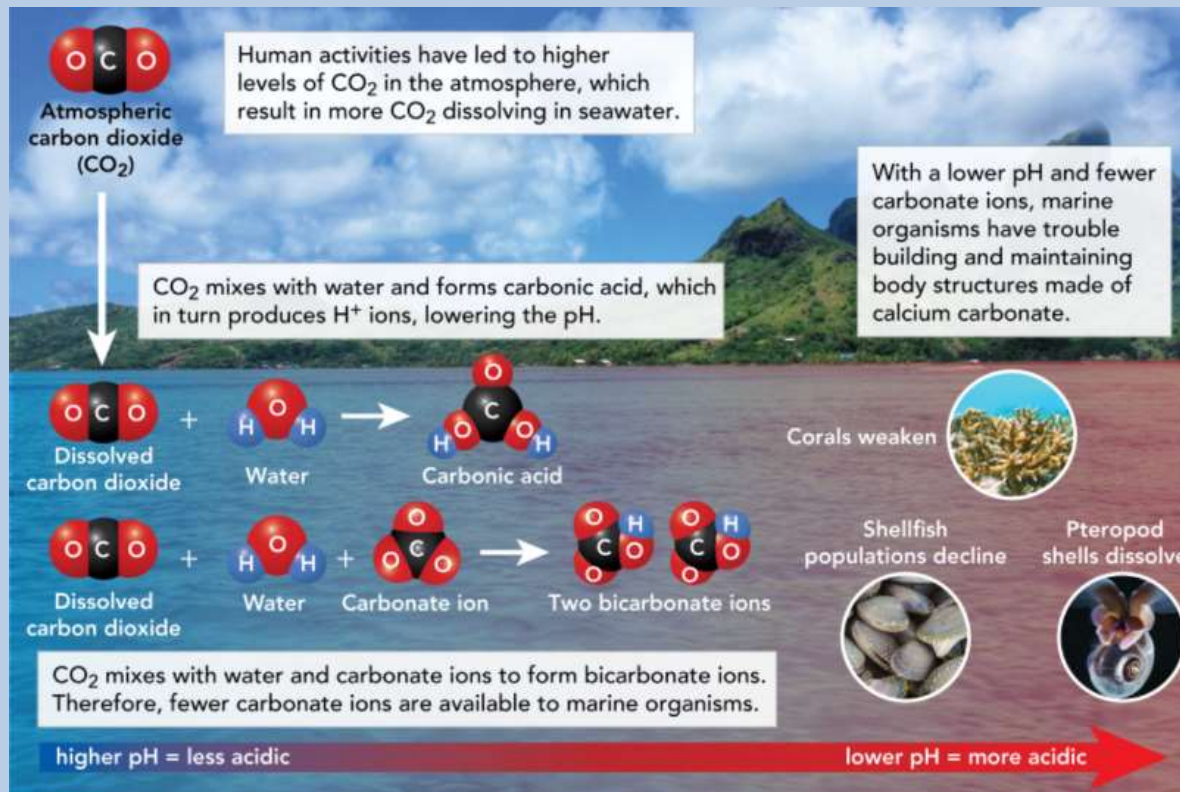
Human Impact

- **1: Acid rain: air pollution combines with water and falls as rain that is acidic and especially damaging to forests and lakes**



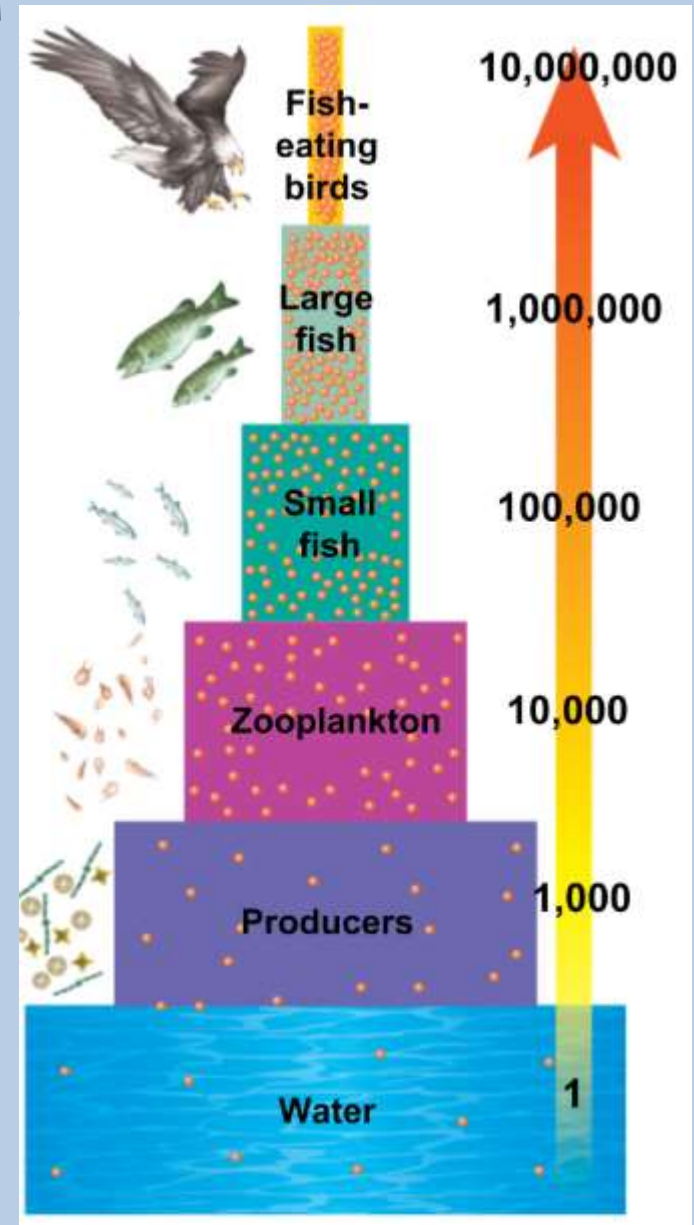
Human Impact

- 2: Ocean acidification: continued decreasing pH due to carbon dioxide absorption from the atmosphere



Human Impact

- **3: Biological magnification: in a food chain the concentration of a pollutant increases as the number of organisms at each trophic level decreases**



Human Impact

- **4: Deforestation: loss of forests that can have negative effects on soil, water, carbon storage, and animals**



Human Impact

- **5: Monoculture: planting large areas with a single, high production crop every year**



Human Impact

- **6: Habitat fragmentation: causes biodiversity loss and makes ecosystems more vulnerable to other disturbances**



Human Impact

- **7: Overharvesting: using a natural resource in an unsustainable way**



Human Impact

- 8: Invasive species: species can be introduced to new places by humans and disrupt the ecosystem

WARNING

These waters contain New Zealand Mudsnaails.
Help protect trout streams by preventing their spread.

BEFORE YOU LEAVE THIS WATERWAY:

- ALWAYS**
 - INSPECT** equipment and
 - REMOVE** attached plants and animals (required)
 - DRAIN** all water from equipment (required)
- BETTER**
 - SCRUB** equipment with a stiff brush, including crevices, and
 - RINSE** equipment with tap water
- BEST**
 - SOAK** in 2% Virkon Aquatic solution (2.7 ounces per gallon) for 20 minutes and
 - RINSE** clean at least 100 feet away from surface waters.

• 5mm or less
• 5-6 whorls
• Right-side opening

Prevent the spread of invasive species, It's the Law!

For more information scan this code using your mobile device

<http://dnr.wi.gov>

Extension STOP AQUATIC SOUTHWEST BADGER

Climate Change

- **What is climate change? (*What is really changing?*)**
- <https://www.climaterealityproject.org/video/climate-101-bill-nye>

Climate Change

- **What is climate change? (*What is really changing?*)**
 - **Temperature**
 - **Clouds**
 - **Winds**
 - **Precipitation**
 - **The frequency and severity of extreme weather events**

Climate Change

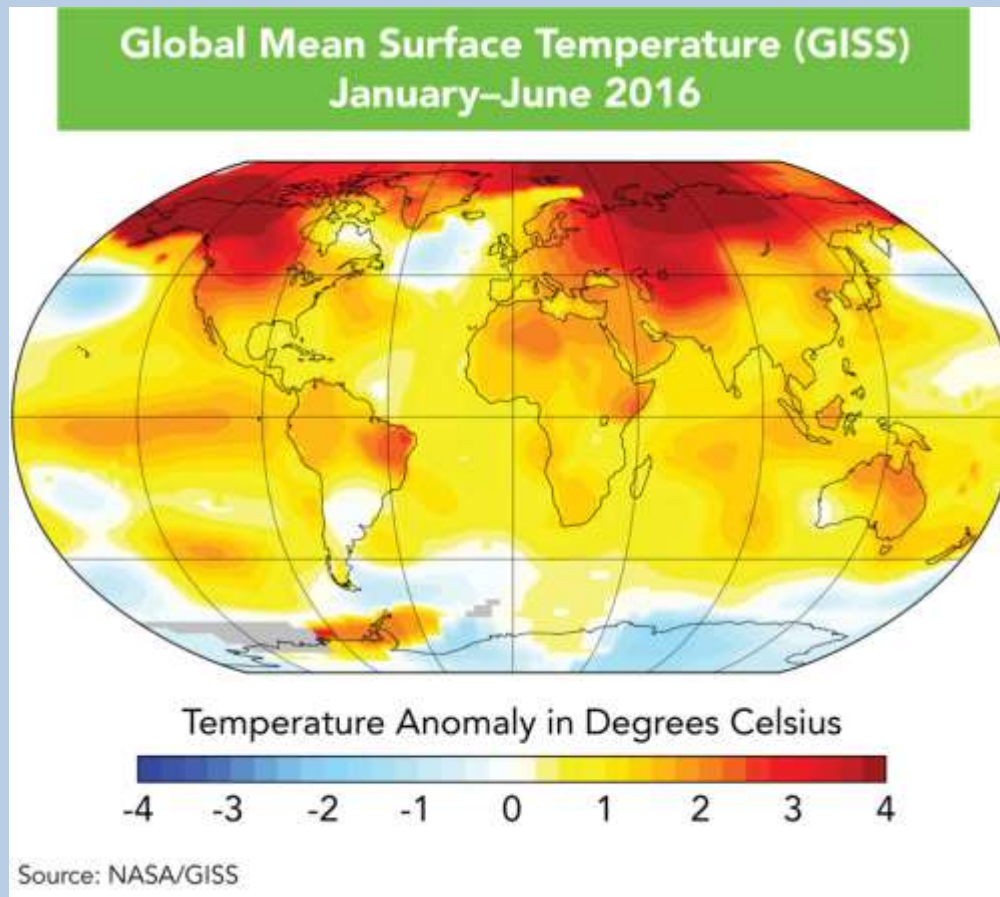
- **The Intergovernmental Panel on Climate Change was founded in 1988 by the World Meteorological Organization and the United Nations to collect data on the climate**
- ***Over 2,500 scientists contribute and 195 governments are members***

Climate Change

- **What evidence is there for climate change?**

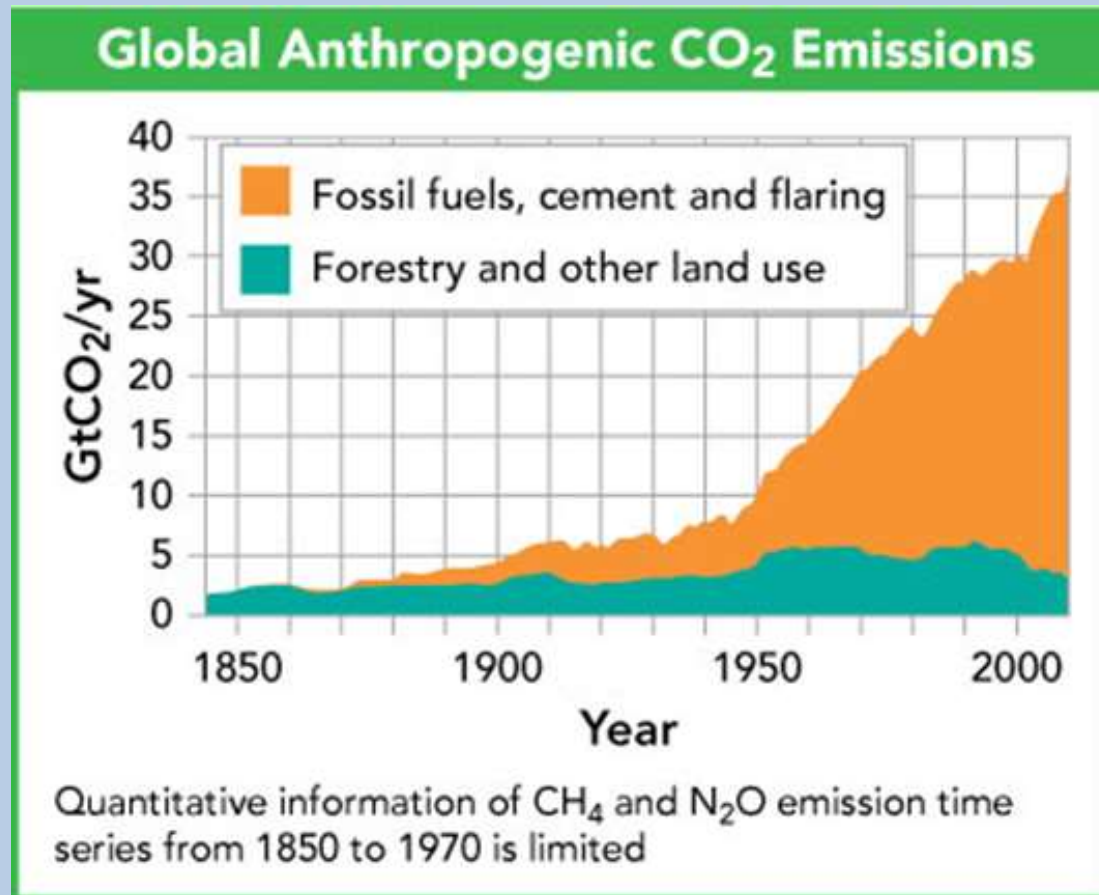
Climate Change

- What evidence is there for climate change?



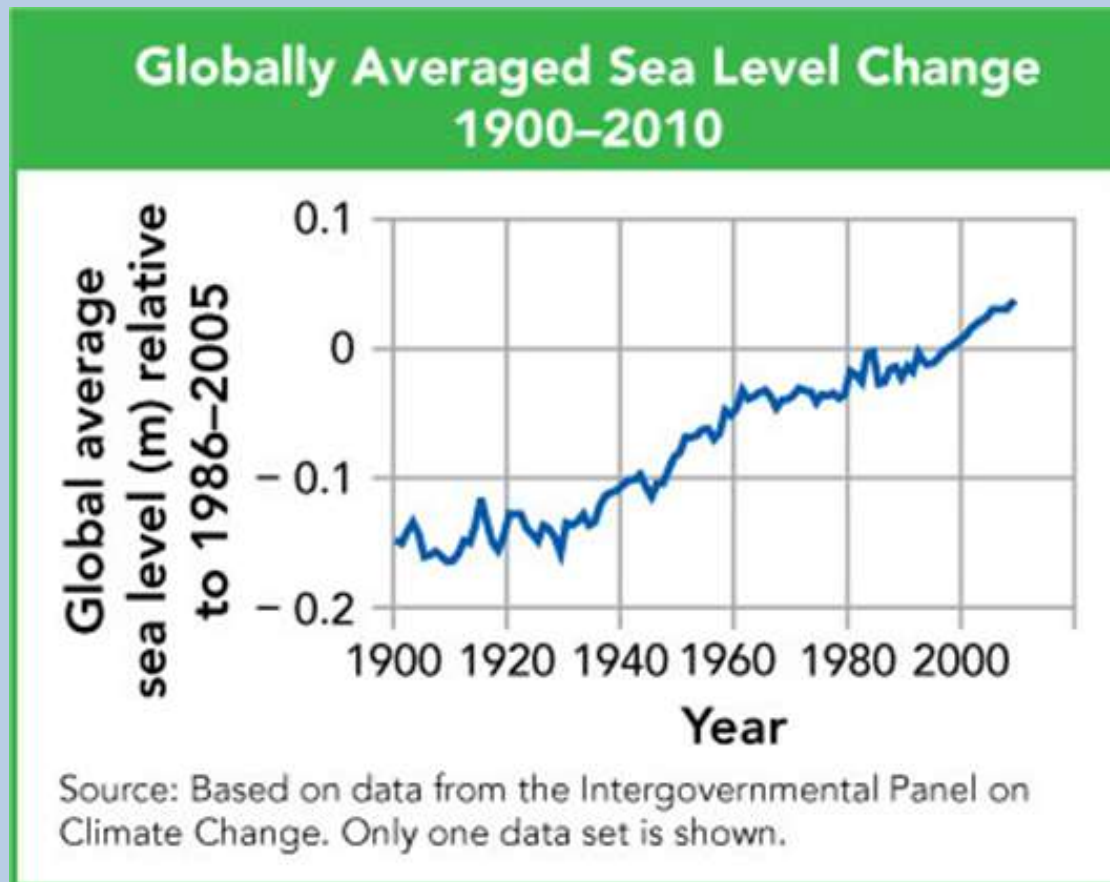
Climate Change

- What evidence is there for climate change?



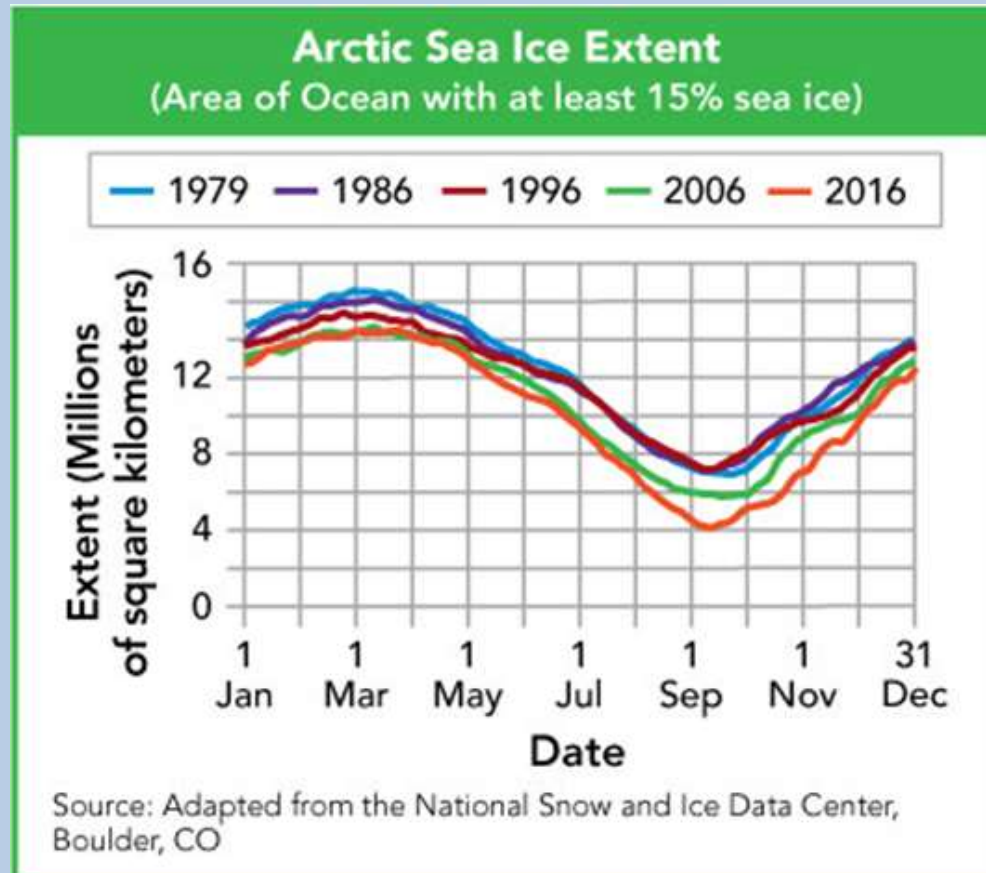
Climate Change

- What evidence is there for climate change?



Climate Change

- What evidence is there for climate change?



Climate Change

- **Data that the IPCC collects is used to make models that predict future outcomes:**
 - **If CO₂ emissions are reduced the temperature will increase by 3 degrees in this century**
 - **If CO₂ emissions are held constant the temperature will increase by 4 degrees in this century**

Climate Change

- How does climate change **impact humans?**

Climate Change

- **Humans are impacted by:**
 - **Water availability**
 - **Droughts**
 - **Decreased snow pack**
 - **Crop cycles**
 - **Negative impact on crop yield**
 - **Loss of land**
 - **Sea level has increased 4 inches in 55 years**

Climate Change

- **What is the role of science in dealing with climate change?**

Climate Change

- **Science can help by:**
 - 1. Recognizing that there IS a problem**
 - 2. Gather data**
 - 3. Use data to change behavior**

Human Project

- **As you work on your project keep in mind that you are *studying the culture, resources, politics, economy, and conflicts of your country in order to identify the biggest environmental impact of the country***

Human Project

- You have two options for your presentation:
 1. Poster
 2. Slideshow
- It is due on NOVEMBER 26/27th
- You will be presenting in small groups
- Use the rubric

Human Project

- **Begin the human impact project**
- **YOU SHOULD AT LEAST START RESEARCHING TASK 4 BEFORE LEAVING**