

## Greenhouse Effect (Day 1)

5/3/17

Sunlight) Visible & Ultraviolet: High Freq & Short Wavelength

→ Earth surface absorbs that radiation & re-emits it at a longer wavelength

- Reradiates @ Infrared Radiation

Greenhouse Gas - Allow High Freq. Waves to easily pass through

- Lower wavelength re-radiated waves will be blocked, greenhouse gas absorbs & re-emits the radiation/ray in all directions

Greenhouse Effect - Good Keep Earth Warm but too much is bad

## 4 Greenhouse Gases

CO<sub>2</sub> Carbon Dioxide - From burning fossil fuels  
- Primarily responsible

Water Vapor - Most important Greenhouse Gas  
- Has not increased since industrial Rev.

Methane CH<sub>4</sub> - From burning Nat Gas  
- Emitted from Cows

Nitrous Oxide N<sub>2</sub>O - Agriculture / Fertilizer  
Depletes the Ozone layer

- Greenhouse gases act by resonance
- The absorbed infrared radiance emitted by the earth re-radiate UV in all directions