1. Sun is source of warmth on earth, earth reflects heat = greenhouse effect
2. Greenhouse gases keep us warm, but GG going up
3. CO2 increased 40% since 1800s
4. Since 1970, average temp. has
5. Warming of lower atmosphere, CO2 growing
6. More CO2 trapped since 1870, than in last 1 000 000 years
7. Gas trapped in ice caps tells us about temp
8. Earth warming 10 times faster since ice age
9. More C12 and C13 from fossil fuel is in atmosphere now
10. Humans resp. for 30% of CO2, volcanoes resp. for 1%
11. Burning FF in carbon sinks releases a lot of CO2
12. CO2 from methane (farming), nitrous oxide (fertilizers)
13. Natural causes not changing temps; humans are
14. Since 2000, twice as many record highs in temp.
15. From 1900-2000 average temp raised 1 degree
16. Since 1995, temp more than in last 800 years
17. 70% of earth = oceans, absorb 90% of heat
18. Since 1900, ocean level rises 2 cm/year, 200 cm since 1900
19. Water is warmer so it expands
20. Arctic ice is melting
21. Ocean becoming more acidic bc of CO2
22. Up to one third of species could become extinct
23. More sea ice is melting
24. Sea ice reflects sun, but oceans soak up the sun