**Things to Know for the Air and Water Test**

**Air**

1. Layers of the atmosphere – where do we live? Ozone layer?
2. Main components of air
3. Air pressure – higher up less pressure – why?
4. What causes the seasons? When are we closest to the sun?
5. What happens to the sun’s rays? What absorbs, what reflects?
6. What causes convection currents?
7. What else causes the movement of air and water? Know basics of Coriolis effect
8. What is a rain shadow? What does that do to the land?
9. What are jet streams?
10. What is relative humidity?
11. Difference between weather and climate
12. How does climate affect biomes?
13. Know the basics on ozone we discussed

**Water**

1. What are the top uses of water in the USA –how do they use water?
2. What are the top uses in the world? Why does this differ from the USA?
3. Personal use - know the basics we have talked about – where is most water used in a house?
4. Agriculture – Basics on ag uses. What is eutrophication? (They LOVE to use that word on the test!) What is soil salinity? Runoff? What is the best method of irrigation for conserving water.
5. Industry - What are some problems with it?
6. Aquifers – What is the difference between saturated and unsaturated soil? What are the cone of depression and sink holes? What problems do they face? What is the water table? What is meant by confined and unconfined aquifers?
7. What is water transfer? Why do it? How? What happened to the Aral Sea?
8. What are the differences between dams and reservoirs? What are positives and negatives of dams? What happened at the 3 Gorges Dam?
9. Know the aquatic biomes
10. ENSO – what is it?
11. What is upwelling?
12. What is meant by thermohaline circulation?

**Pollution**

1. Know the basic sources of both water and air pollution and hazardous waste. Point source vs nonpoint source
2. What are some of the laws? Know the ones on your notes!
3. What is BOD, DO, turbidity?
4. How are they trying to fix the problems?
5. How is wastewater treated? How is septic different from sewer?
6. What are some issues with hazardous waste? Love Canal?
7. What is indoor air pollution?
8. What is thermal pollution?
9. Know basics from lab – what is acid rain and how does it occur? What happens to water as the CO2 level increases? What happens to coral as CO2 levels rise?