

Monday, April 24, 2017

Pick up: self check

Today you will:

- Self check
- DSQ ISN pg 214
- Biodiversity & Human Impacts

Ocean Acidification

Homework/Planner:

EOC Study Guide Questions 184-225 due Friday HONORS-Case study due Thursday.

Intro to Biodiversity

<u>https://www.youtube.com/watc</u> h?v=GK vRtHJZu4

BioDíversiTy

3 General Types:

1. Habitat diversity:



refers to variety of places where life exists: coral reefs, old-growth forests in the Pacific Northwest, tall-grass prairies, coastal wetlands, & others \rightarrow each a home for a variety of species

2. <u>Genetic diversity</u>:

variety of genes within a population

3. <u>Species diversity</u>:

- variety of species
- what most people mean when they talk about biodiversity
- Tropical rainforests cover less than 2% of the planet & yet are the only home of at least 50%- 90% of all species on earth → provides food, shelter, medicines, oxygen, prevents erosion, etc.
- The survival of each is linked to the health of the other two, and together they comprise the wealth of ecosystems.... The Earth!!!!

Renewable Resources

- A natural resource → <u>can be replaced</u> by natural processes at a rate comparable or faster than its rate of consumption by humans.
 - Solar radiation
 - Tides
 - Winds
 - Hydroelectricity



- May also mean wood, paper, leather, timber, if harvesting is performed in a <u>sustainable</u> manner.
- <u>Sustainable-</u> sustainability describes how biological systems remain <u>diverse</u> and productive over time

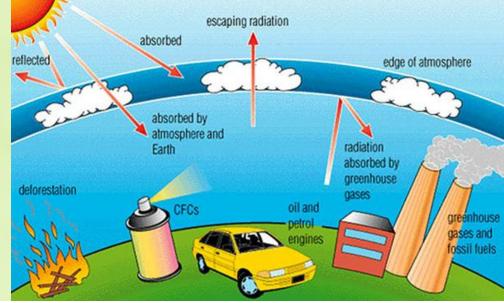
Non-renewable Resources

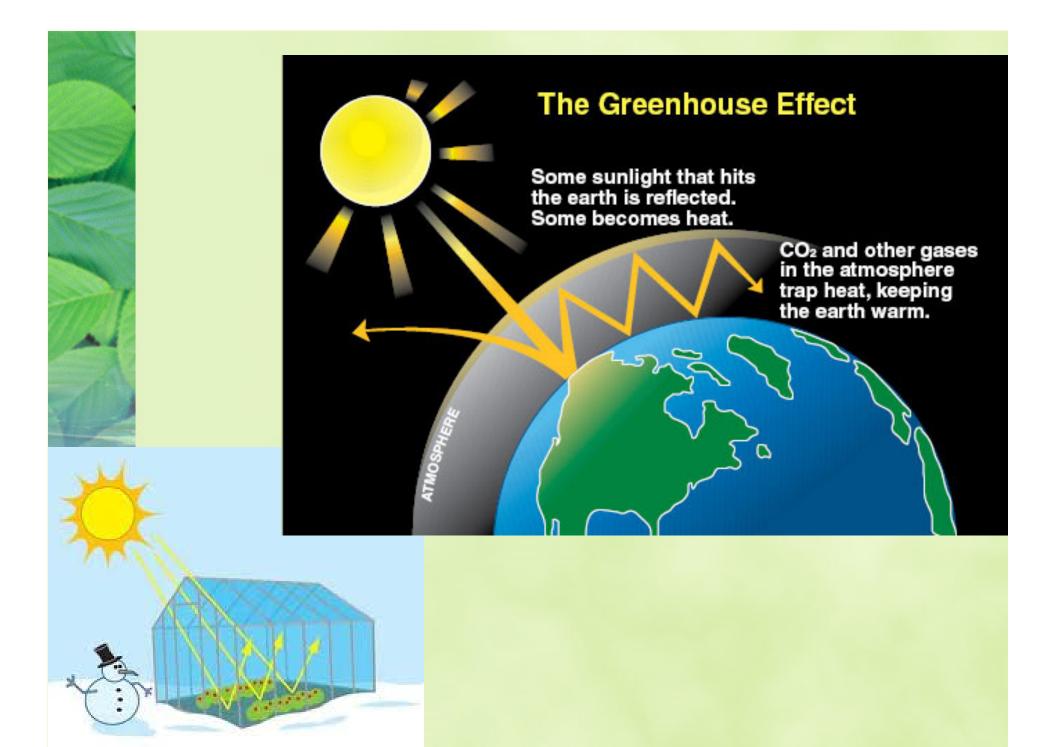
- A natural resource that <u>cannot</u> be produced, re-grown, regenerated at the same rate as its consumption
- Exist in a fixed amount, or is consumed much faster than nature can recreate them.
 - Fossil fuel (such as coal, petroleum and natural gas)is an example.
 - Water

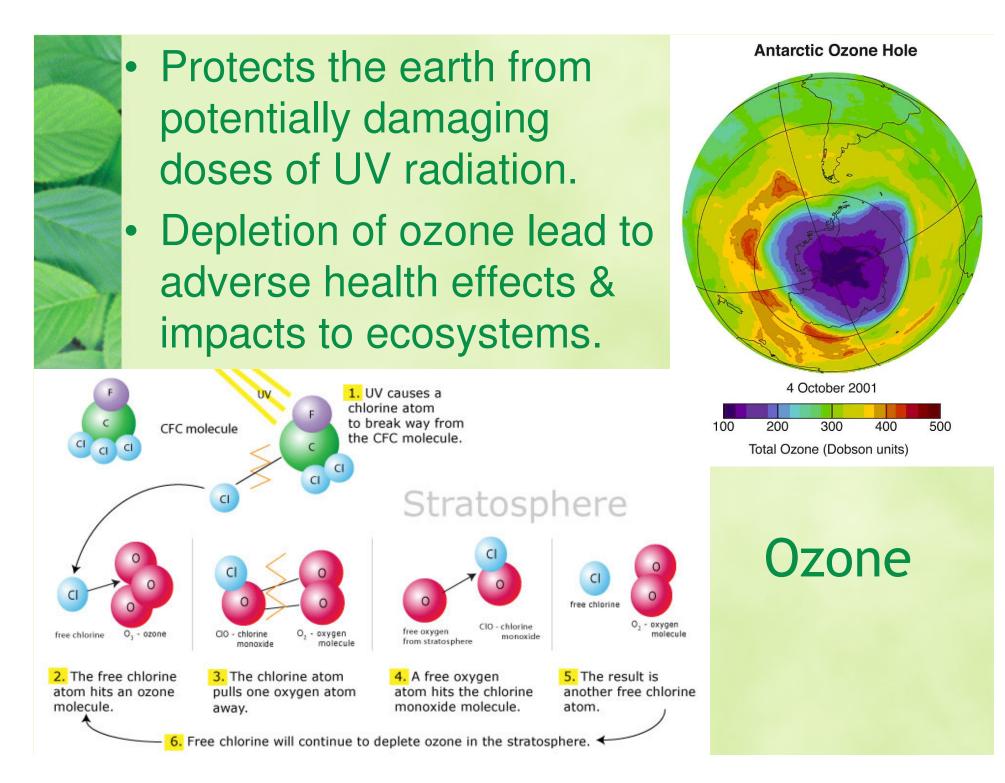


Greenhouse Effect

- The rise in temperature of Earth b/c of certain gases in the atmosphere trap heat (like a greenhouse)
 - ex: carbon dioxide, nitrous oxide, and methane
- Without these gases, heat would escape back into space and Earth's avg. temp would be about 60°F colder.







Biological Magnification

- The buildup of certain substances, such as DDT, in the bodies of organisms at higher trophic levels.
- 1. <u>Where is there MORE DDT in the diagram to the left?</u>
- 2. What happens if the Great Blue Heron dies out due to insecticide build up from biological

magnification?

<u>DDT</u> = dichloro diphenyl trichloroethane

