

Tuesday, September 30/14  
Science 10

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1. Fertilizers and their Effects on Ecosystems
  2. Risks and Benefits of Scientific and Technological Advancements
  3. Biomes
  4. Test Topics *Test → Thursday.*
  5. Review Day Tomorrow
  6. Carbon Fibers and Fireflies
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## Test Topics - Biodiversity to Biomes

- biodiversity
- bioaccumulation (mercury, DDT)
- factors: abiotic (ie/ space, temperature, light)  
    biotic (ie/ interactions, reproductive rates, disease)  
    limiting (ie/ food supply, water supply)
- types of substances: organic (proteins, sugars, fats)  
    inorganic (CO<sub>2</sub>, H<sub>2</sub>O, NH<sub>3</sub>)
- movement of energy and matter through ecosystems
- matter and atoms
- biogeochemical cycles - inorganic chemicals cycle through both  
    the biological and the geological world
  - carbon, oxygen and nitrogen cycles
- reservoirs - atmosphere, oceans, earth
- carbon cycle - photosynthesis and cellular respiration
  - concept map
- nitrogen - importance in ecosystems
  - nitrogen fixation
  - denitrification
- factors causing ecosystem change - know 5
- Environmental Impact Assessment (EIA)
  - proactive, preventative approach to environmental management and protection
- fertilizers and their effects on ecosystems
- biome - Canada's biomes: tundra, boreal forest, deciduous forest  
    and grasslands