


Tuesday, February 24/15
Science 122

 <http://mvhs-sherrard.weebly.com/>

1. Induced Electromotive Force - Continue

2. [Worksheet - Induced EMF - HW](#)

3. Self-Inductance and Mutual Inductance

4. Transformers

5. Worksheet - Transformers

Tuesday, February 24/15
Physics 122/121

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1. Rewrite: Wednesday → Thursday (if required)
 2. Static Torque Examples - Continue
 3. Worksheet - Torque
Textbook - Page 501 #31
Page 529 #27
-
4. Outline -> Experiment 10.2 - Torques - Page 68



Tuesday, February 24/15
Science 10

1. Assignment: Biodiversity and Culture
Due: Monday, March 9/14
2. Paradigm Shifts
3. Quiz: Biodiversity to Paradigm Shifts
Thursday - February 26/15
4. Page 65 - Understanding Concepts, #1, 2, 3, 4, 5
- Making Connections, #6
5. Page 69 - Understanding Concepts, #1, 2, 3, 4, 6
6. Page 71 - Understanding Concepts, #1, 2, 3, 4, 5

} Hw

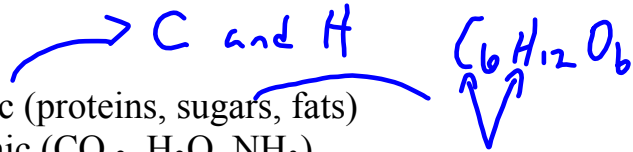
Quiz Topics - Biodiversity to Paradigm Shifts

- biodiversity $\xrightarrow{\text{life}}$ variety

- bioaccumulation and biomagnification (mercury, DDT)

- sustainability

- types of substances: organic (proteins, sugars, fats)
inorganic (CO_2 , H_2O , NH_3)



- movement of energy (it flows \rightarrow) and matter through ecosystems
(it cycles \circlearrowright)

- matter and atoms

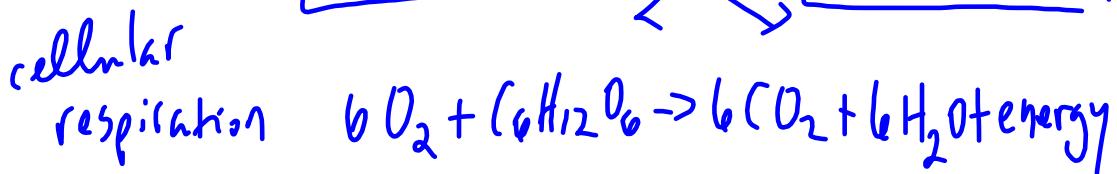
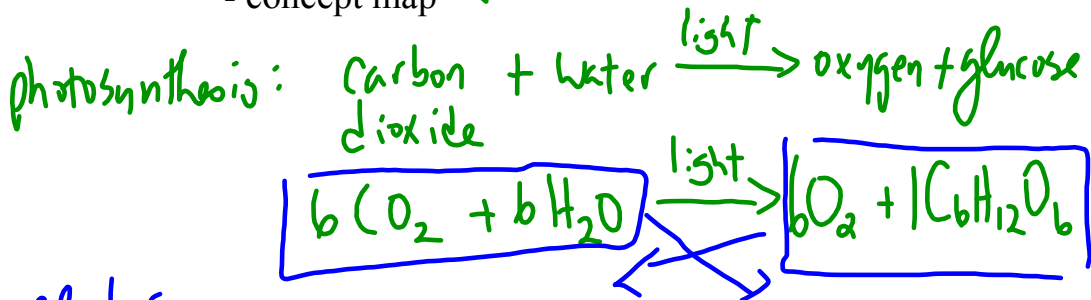
- biogeochemical cycles

- reservoirs - atmosphere, oceans, earth

- carbon cycle - key element in living things

- photosynthesis and cellular respiration
(word and balanced chemical equations)

- concept map \leftarrow



- nitrogen - needed to make proteins and DNA

- nitrogen fixation ($\text{N}_2 \rightarrow \text{NO}_3^-$)

- denitrification ($\text{NO}_3^- \rightarrow \text{N}_2$)

$\text{N}_2 \rightarrow$ nitrogen
 $\text{NO}_3^- \rightarrow$ nitrate
 $\text{NO}_2^- \rightarrow$ nitrite

- fertilizers and their effects on ecosystems

- paradigm shift