

Thursday, February 26/15
Science 122

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1. Check: Worksheet - Induced EMF
 2. Self-Inductance and Mutual Inductance
 3. Transformers
 4. Worksheet - Transformers
 5. Worksheets - Review
 6. **Test - Magnetism**

- Wed. after March Break (MII)

Thursday, February 26/15
Physics 122/121

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1. Rewrite Today
 2. Worksheet - Torque
Textbook - Page 501 #31
Page 529 #27
 3. Experiment 10.2 - Torques - Page 68 - Tomorrow
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Thursday, February 26/15
Science 10

1. Assignment: Biodiversity and Culture
Due: Monday, March 9/14
 2. Questions?
Page 65 - Understanding Concepts, #1, 2, 3, 4, 5
- Making Connections, #6
Page 69 - Understanding Concepts, #1, 2, 3, 4, 6
Page 71 - Understanding Concepts, #1, 2, 3, 4, 5
 3. Quiz: Biodiversity to Paradigm Shifts
Tomorrow-> Friday - February 27/15
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4. Unit 2 - Physical Science: Chemical Reactions
5. Periodic Table of the Elements
6. Chemical Symbols and Chemical Formulas
7. Atomic Number
8. Ions

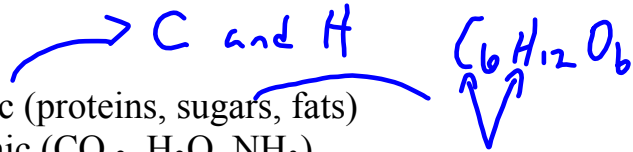
Quiz Topics - Biodiversity to Paradigm Shifts

- 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 \circlearrowleft)

- matter and atoms

- biogeochemical cycles

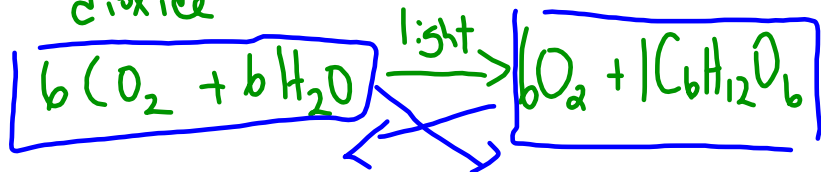
- reservoirs - atmosphere, oceans, earth

- carbon cycle - key element in living things

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

- concept map \leftarrow

photosynthesis: carbon + water $\xrightarrow{\text{light}}$ oxygen + glucose
dioxide



cellular

respiration $6\text{O}_2 + \text{C}_6\text{H}_{12}\text{O}_6 \rightarrow 6\text{CO}_2 + 6\text{H}_2\text{O} + \text{energy}$

- 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