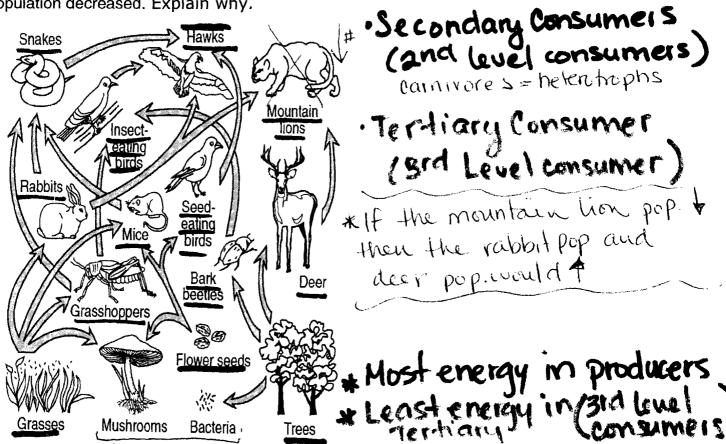
т	1	Alata.	
Leac	her	Notes	٠.

Label the following food web including: producers, herbivore, carnivore, and decomposer, primary consumers, secondary consumers, tertiary consumers, heterotroph and autotroph. Describe where the MOST energy is found and where the LEAST energy is found in the food web.

(12C) Identify two specific populations that most likely increased in number after the mountain lion

population decreased. Explain why.



· Producers = Autotrophs + make + her own food

Decemposers

· Primary Consumers = 1st Level = heterotrophs - eat | can Not consumers (herbivores) make our food.

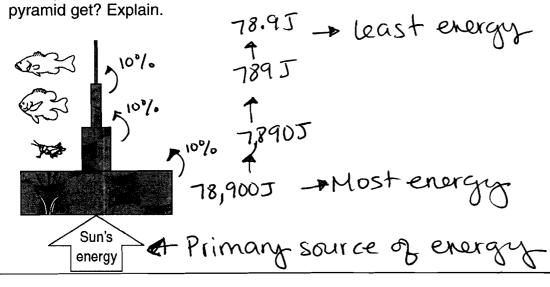
Interpret relationships:

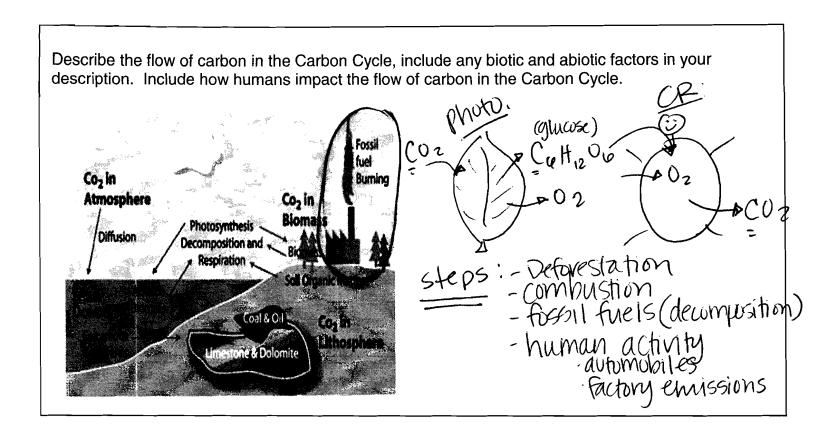
Smiley, Unhappy OR ehhh face?	Type of Symbiosis	Definition
J J	1. Mutualism	Both organisms benefit
U "	2. Parasitism	One benefits; one harmed (host)
U XX	3. Predation	one benefits; one dies
" "	4. Commensalism	one benefits; one unaffected
~ ~	5. Competition	neither benefit - fighting approlimited

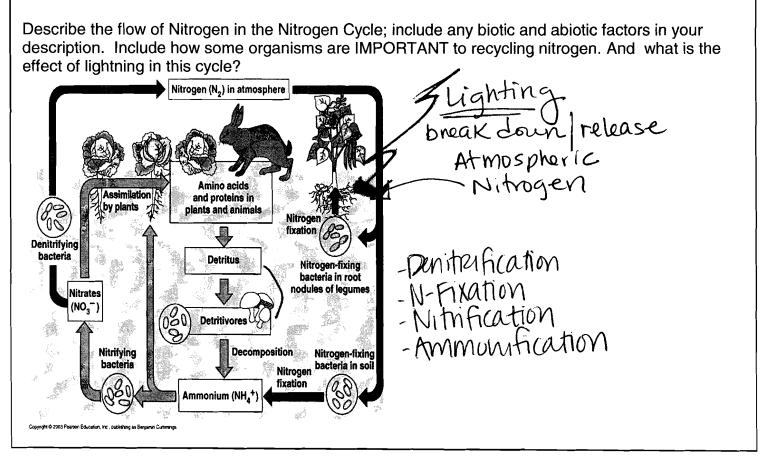
Identify the type of relationship between the two different species:

- 1. Predation My sister's little pet dog, Fifi, was eaten by an alligator last summer while they were in Florida!
- 2. Yarasi (SM) My dog has a tick in its ear.
 3. My dog has a tick in its ear.
 A yellow flower is pollinated after being visited by a honeybee to get nectar.

Describe what is happening to the energy in the diagram, include where the primary source of energy comes from. How much energy is transferred between each level of a pyramid? How is energy lost? If the producers have 100% = 78,900 J of energy, how much will the top level consumer in this pyramid get? Explain.







Describe the results of this data table.

Carbahydrates

		Indicator Tests	<u> </u>	
Substance	Biuret's Reagent Tests for Protein	Iodine Solution Tests for Starch	Benedict's Solution Tests for Glucose	Lipid Test Test for Lipids
Gelatin	+	-	<u>-</u>	<u>-</u>
Potato	-	+	-	-
Dextrose	-	-	+	-

gelatin = protein Potato = Garch (PolySacchanide -, Carrahydrate) Dextrose = glucose (monosacchanide -, Simple Carrohydrate)

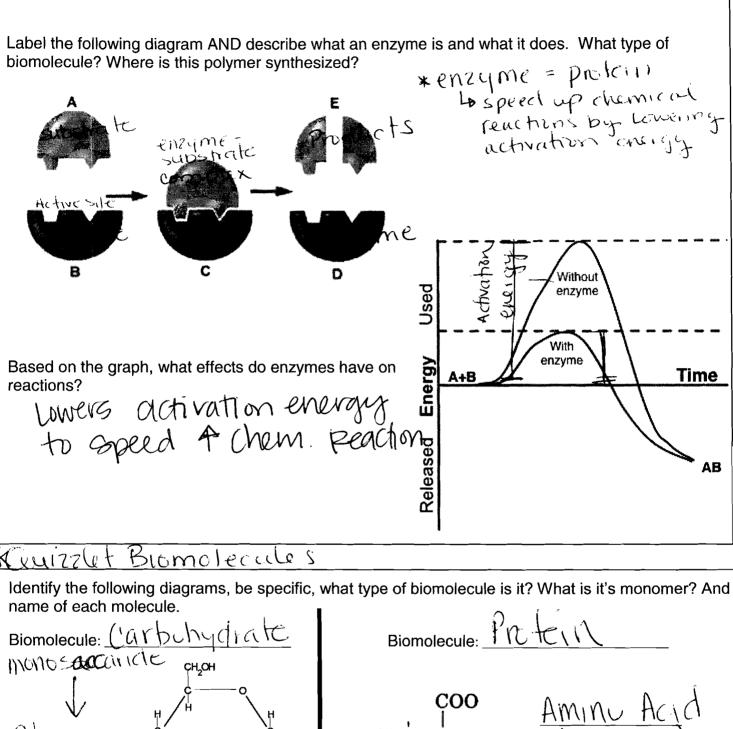
*Biomolecules Guizzlet = vocabulary Periew
Describe: polymerization, dehydration synthesis and hydrolysis and how they affect the synthesis of
new molecules
onlymanization - inining monomers together to build () and use
polymenzation-joining monomers together to build (for make produce polymers together to build (produce put together to behydration synthesis-water is jost between monomes) create (or build) polymers.
my tex (1) water is not between monomes)
Dehumpulor/syllves/s to inio trous trackler to forme creat
10 1011 17 100 1 1
(or vivia) polymers.
HUMBURIS- adding register to polyroger to begat it into a proposition
Hydrolysis- adding water to polymer to break it into monomers

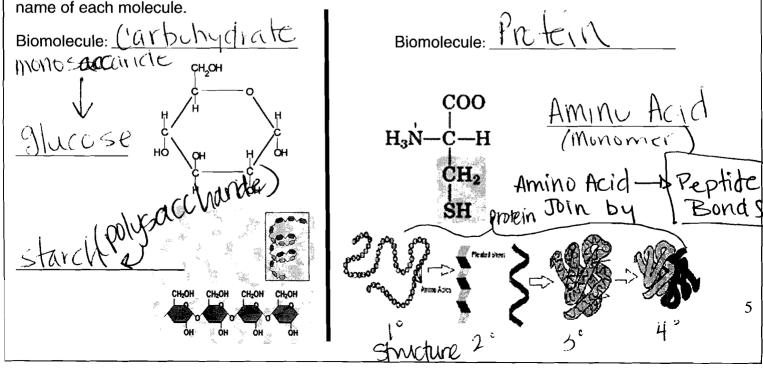
Hibernating Ground Squirrels

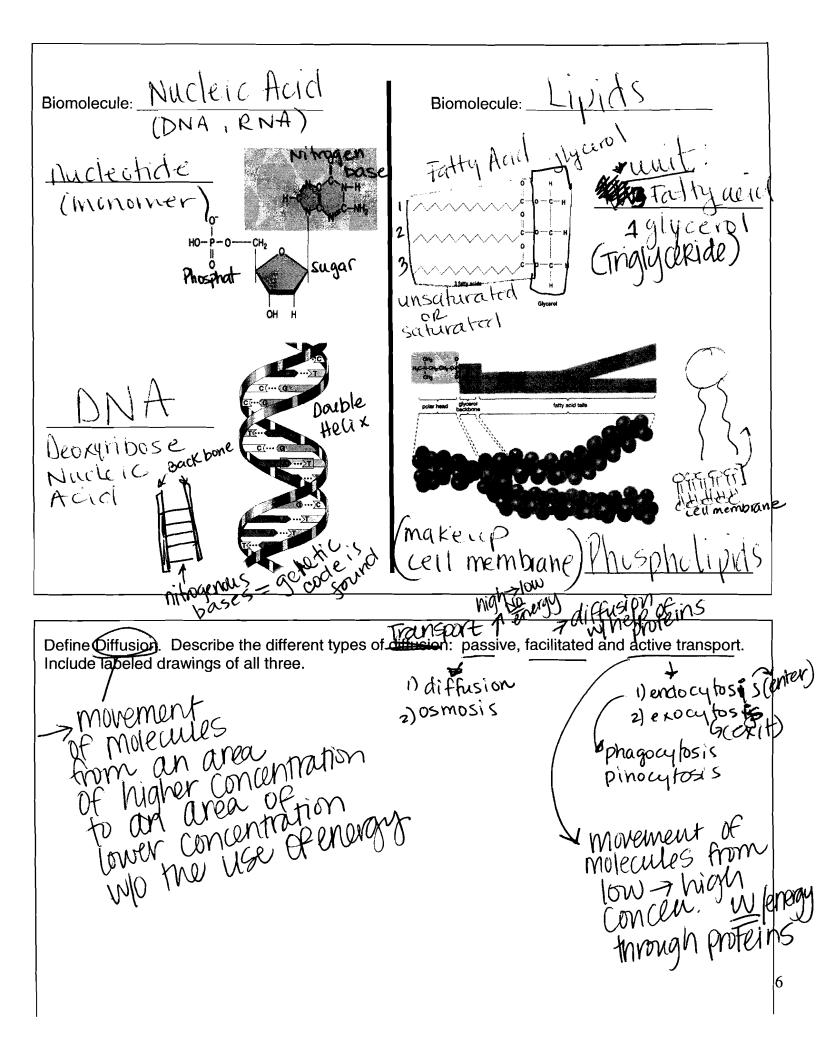
Hibernating ground squirrels may have abdominal temperatures as low as 0 °C, maintaining subzero abdominal temperatures for more than three weeks at a time, although the temperatures at the head and neck remain at 0 °C or above.

Before entering hibernation ground squirrels eat a large amount of food and store energy in fat deposits to survive the winter.

What types of food should these squirrels eat before they hibernate? What are the main components of this biomolecule? nuts = Lipids = High errorg g



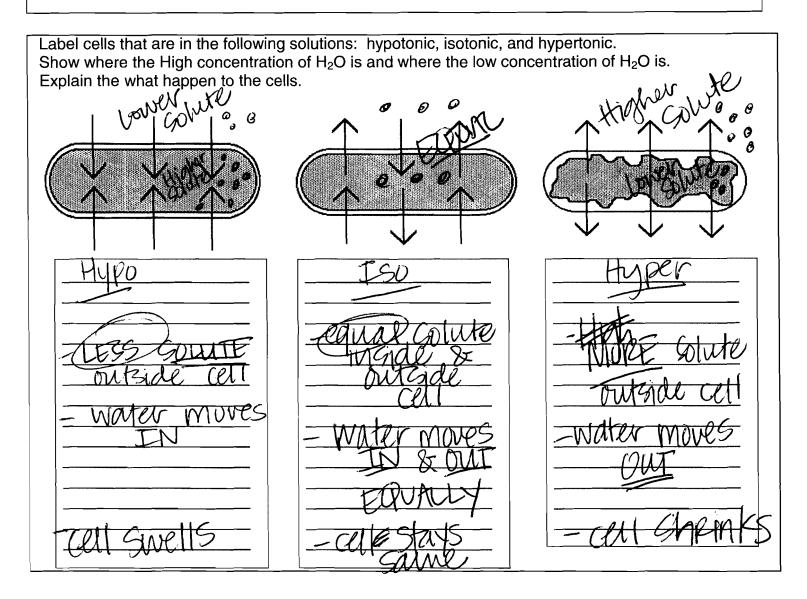




Define homeostasis. Include any cell parts that are responsible for maintaining homeostasis in cells in your explanation.

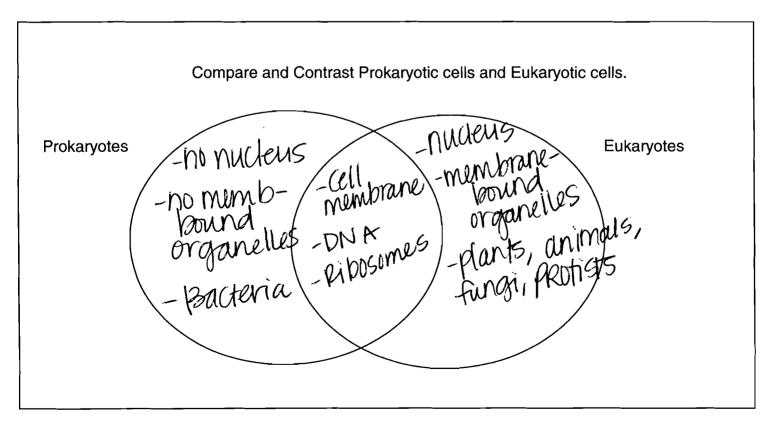
- Maintaining a Gable internal environment despite external conditions

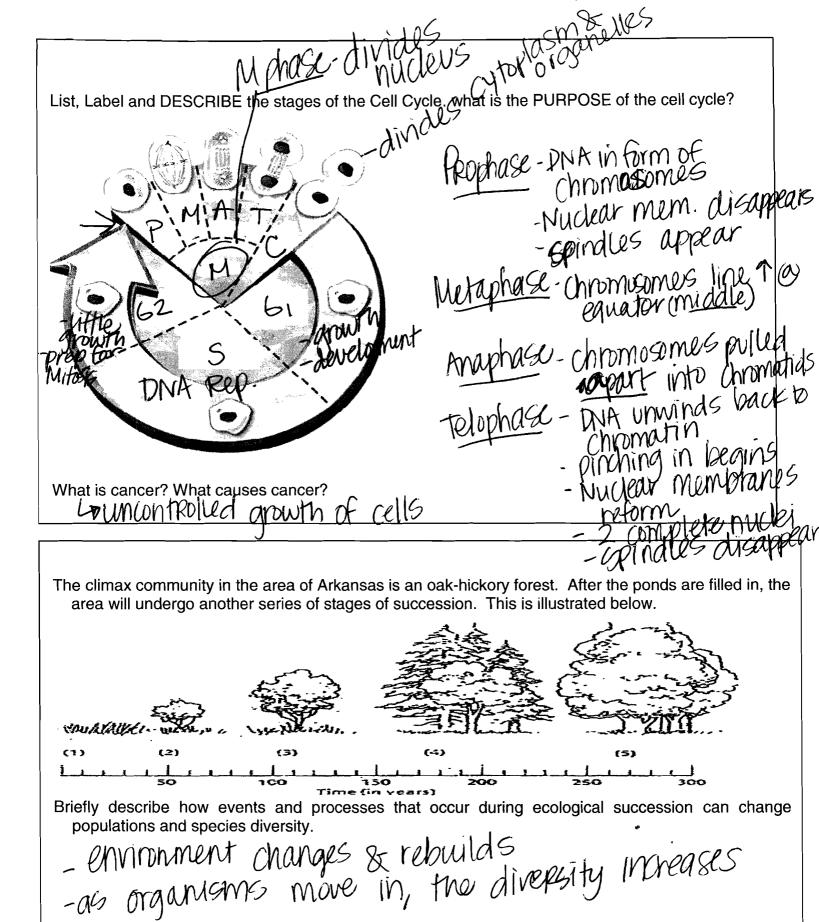
- Cell parts: Cell membarane, parteins

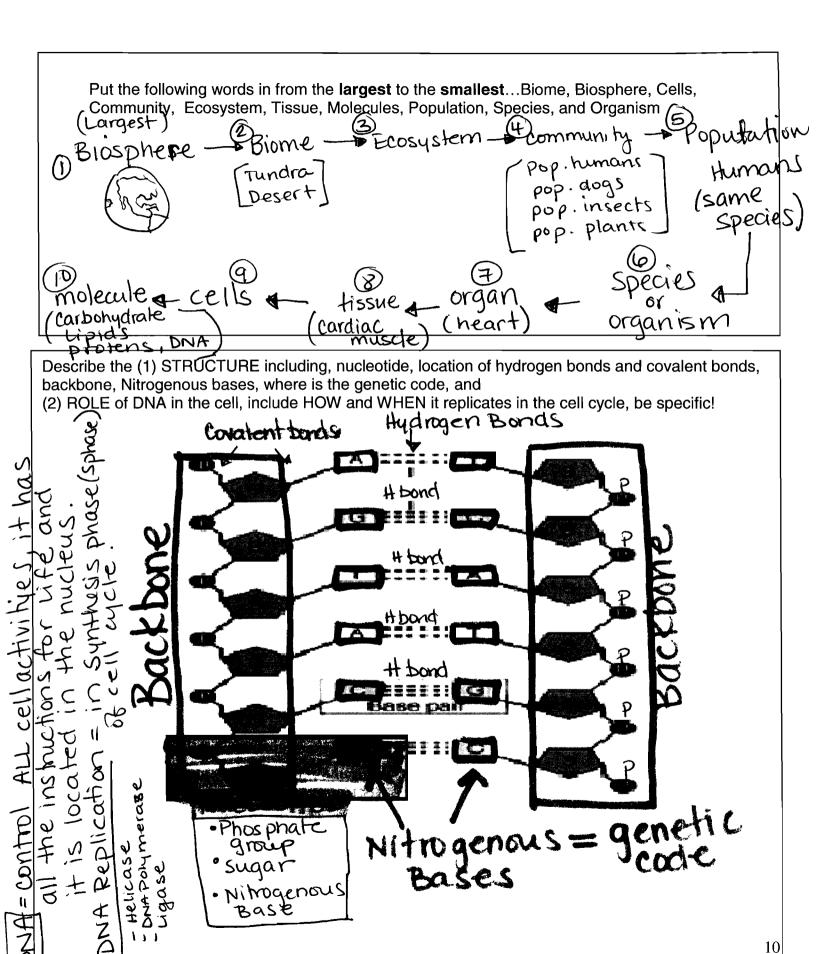


Describe photosynthesis and cellular respiration. Include specific ORGANELLES needed by both processes and the different types of cells where they occur. Use the diagram to help you.

Plant cells	Plant cells	Photosynthesis	Plant and Animal cells
Photosynthesis	Plant cells	Photosynthesis	
Plant cells	Photosynthesis	Plant and Animal cells	
Photosynthesis	Plant cells	Photosynthesis	
Plant cells	Plant cells		
Plant cells	Plant and Animal cells		
Plant cells	Plant and Animal cells		
Plant cells	Plant cells		
Plant			







Protein Synthesis:
For each of the following sequences, fill in either the DNA, the mRNA sequence, the rRNA anticodons, or the amino acid sequences that have been left blank. If several sequences might work choose any one. ON TOTAL AND A
1. DNA TACTGATICGACC CCC ATA ATG AAA ATG
TRNA LIHE UGA UCG ACC CCC ANA AUG AAA AUC
Methionine-Strine-Tryptophan-Glycine-Tyrogine-Thenydamine 404 Amine (start)
2. DNA TACCGCTCCGCCGTCGACAATACCACT
Methionine-Planine-Arginine-Histidine-Leucine-Leucine-Trypophen. Stop (Stark)
3. DNA TAC CAC CCC CGT ATG GCT GGG AATATC MANA AUG GUG GGG GCA UAC CGA CCC UUA UAG IRNA UAC CAC CCC CGU AUG GCU GGG AAU AUC VAA Whimine Valine-Glycine Alamine-Typosine-Arginine-Proline-Leucine Grop
4. DNA TAC CTC ACA CTA CGA ATG TTG GGA ATT MANA UN UNAC CULL STATE GGA AUC UNG GGA AUU UNG AUU UNG GGA AUU UNG GGA AUU UNG AUU UNG GGA AUU UNG AUU UNG AUU UNG AUU UNG AUU UNG

5. What are the three differences between RNA and DNA? RNA DNA (Sugar) - ATC (G -) (hass) 7. Where is DNA found in the cell? RNA is 15 made in the hucleus, & then it leaves, fravels cell? RNA is 15 made in the hucleus, & then it leaves, fravels and then finds a hibosome.
8. Name the three types of RNA and what they do. OMRNA- COPY of DNA Code in form that ribosomes can read (A-V, C-G); message BYRA- transfers the amino acid to the ribosome, so the anticodon can bind to the codon & release the AA Orfina of the noosome- assembles AA 9. Draw an mRNA strand that is complementary to the DNA strand AATTGC. Into Proteins.
mRNA: UUAACG
10. What are the steps of transcription? - DNA Whinges (unwinds) due to helicage. - PNA nucleoficles find base-pair to DNA arrand (A-7U-, C-5G) - PNA nucleoficles find base-pair to DNA arrand (A-7U-, C-5G) - PNA polymerase accides this process & ensures base- - PNA polymerase desired this process & ensures base- - PNA polymerase desired this process & ensures base- - PNA ieaves mucleus - DNA winds back & (ligase) 11. How is RNA Translated and where?
- RNA is translated will proport molecule.
- m RNA codons avait the arrival of tRNA molecules - m RNA codons avait the arrival of tRNA molecules - m RNA codons avait the arrival of tRNA molecules - mat are carrying the arrivo acids brind to other arrivo acids rRNA then assumbles these are into a polypeptide - rRNA then assumbles these are into a polypeptide - rRNA then assumbles these are into a polypeptide.
- rena their agambles these was 11 to a pargraphico 12