Fall Study Guide

Review Lab Safety Rules and Procedures

*Make sure you review all the safety rules and procedures we covered at the beginning of the school year.

CHAPTER 1: INTRO TO BIOLOGY





What is Ecology? Describe primary succession:	Describe secondary succession:	How does overpopulation affect the environment? (Exceeding carrying capacity!)	What is a limiting factor? List 3 density dependent limiting factors:
CAUSES? What are pioneer species? List two.	CAUSES? What is a climax community?	What is carrying capacity?	What is the greenhouse effect? What would happen if we didn't have the greenhouse effect?
What is the EPA?		Label carrying capacity-	What is an Umbrella Species? What organisms benefit from it?
What Global	causes it?	What does it do to the environment?	What is biomagnification?

	<u>Gravitropism</u>	<u>Phototropism</u>	<u>Thigmotrophism</u>	
What it				Describe the following zones in oceans.
causes plants				Abyssal
to do				_
Why this is				Bathyal
helptul				
Vertabrates	Behavior	What is it? Give an example	e <u>.</u>	Neritic
have a	Innate			 Intertidal
	Instincts			
\mathbf{N}				Label the zones:
	Classical			
What is an	Conditioning			
organism's niche	? Operant			
-	Conditioning			Herbivores eat
		Imprinting:		Carnivores eat
List an organish	n			Omnivores eat
and give an	Learned	Habituation:		
niche				Decomposers
mene.				Detritivores
		Photogynthesis va	Chamagunthagia	7
		rhotosynthesis vs.	chemosynthesis	
				Difference between Endotherms & Ectotherms
	L			J.
How does mimic	cry and camouflage er	nable		
	VE:	*	Hetertroph/Consumers:	
		· · · · · · · · · · · · · · · · · · ·	Autotroph/Producers:	/



What is What d What d What a	s a hormone? loes the hormone auxin do? lo gibberellins cause? re Herbicides?	 List 4 1. 2. 3. 4
	What is Migration? What is Circadian Rhythm?	

CHAPTER 2: MACROMOLECULES (ORGANIC MOLECULES)

Macromolecules	Major functions	Monomer	Examples
Carbohydrates			
Lipids			
Proteins			
Nucleic Acids			

List 4 types of Social Behaviors.

What group of macromolecules do enzymes belong to? **Characteristics of Enzymes** What is a chemical reaction? 1. What will happen to the rate of reaction if you.... Heat up the enzyme? _____ What are reactants? Cool down the enzyme? _____ Change the pH? What are products in a chemical reaction? 2. If you add more enzymes (increases the concentration) to a solution of substrate, what will happen to the reaction rate 3. What do enzymes do? How do enzymes affect activation energy? Look at Make a sketch that explains what is meant by the sayings that "enzymes are the graph below. specific" and fit like a "lock and key." Label your sketch with the following words: active site, substrate/reactants, enzyme, products. Activation Activation energy energy energy Potential energy of products Potential energy of reactants

Time

Chapter 3: Cell Theory & Cell Structure

<u>Organelle</u>	<u>Function</u>	<u>Eukaryote</u>	<u>Prokaryote</u>
Golgi Body			
Ribosome			
Nucleus			
Lysosome			
Cell			
Membrane			
Mitochondria			
Vacuoles			
ER (smooth			
and rough)			
Cell Wall			
Chloroplast			
Vacuoles			

List three differences between plant cells and animal cells.

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Only example of prokaryote cell:

Examples of eukaryotes cells:

(2- <u></u> 3	What are the 3	part of the "	cell theory?" 	
	oke	Leeuwenhoek	Scheiden	Shwann	Virchow
	Describe th sketch)	ne structure and comp	position of the co	ell membrane. (r	nake a
	How	are prokaryotic cell (List 3 ways)?	s different fron	n eukaryotic	

Which have been around longer?

