UNIT 1-5: Biome Investigation Lab
AP Environmental Science I, Mr. Doc Miller
North Central High School

Name:	Period:	. Lad ream.	Date:	
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LAB: Biome Investigation

Objective: Evaluate the factors that contribute to stable conditions of common terrestrial biomes and how they influence the organisms that inhabit them. (AP Environmental Science Academic Standards, II-A & C.)

Background & Procedures:

Please refer the "Biome Investigation Manual". Follow along in the manual rotating from station to station to view the specimens provided and use your observations to complete the Investigative Analysis Below.

Materials:

Biome Investigation Manual Temperate Deciduous Forest Specimens

Boreal Forest Specimens Desert Specimens

Investigative Analysis of Desert Biome:

- Classify the following organisms from the Deserts based on their
 - a. biological kingdom (animal, pant, fungi, protist, moneran/bacteria)
 - b. habitat (canopy, shrub, ground, underground)
 - c. IF IT IS A VERTEBRATE, what type (homeothermic or poikilothermic)
 - d. ecological role that they play (producer, decomposer, consumer, omnivore, predator, parasite, scavenger). NOTE: More than one classification may be used.

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Organism	Kingdom	Habitat	Type of Organism	Ecological Role
Prickly Pear				
Sage				
Ant				
Scorpion				
Pygmy Cedar				
Termite				
MIllipede				
Balloon Plant				
Tarantula				
Bat				
Pronuba Moth				
Tarantual Hawk				
Desert Ground Beetle				
Palo Verde				
Desert Lizard				
Lichen				
Tumble Weed				
Ichneuman Wasp				
Creosote Bush				
Snail				
Black Widow				
Pocket Mouse				
Mesquite Bush				
Snake				
Praying Mantis				
Saltbush				
Butterfly				
Locust				
Cricket				
Bee				

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3. What strategies	do both plant and anin	nals of the Desert use	to deal with the low wa	ater supply?
4. In the desert, wh	nat are the advantages	of being homeotherm	nic versus poikiloltermid	c?
a. bi b. ha c. IF d. ee	wing organisms from to iological kingdom (aninabitat (canopy, shrub, IT IS A PLANT, what cological role that they	he Temperate Decidu nal, pant, fungi, protis ground, underground) type (evergreen and/o play (producer, deco	ous Forest based on th t, moneran/bacteria)	niferous) nivore, predator,
Organism	Kingdom	Habitat	Type of Organism	Ecological Role
Maple			71 0	J
Beech				
Hemlock				
Oak				
Squirrel				
Lichen				
White-Face Hornet				
Skunk				
Toad				
Trillium				
Dog-Toothed Violet				
Jack-in-the-Pulpit				
Beech Drops				
Indiana Rope				
Squaw Root				
Polipody Fern				
Marginal Shield Fern				
Conocephalus				
Sowbug				
Millipede				
Deer Mouse				
Snail				
Raccoon				
Centipede				
Daddy Long Legs				
Bacteria				
Earthworm				
June Beetle				
Cicada				
Mushroom		ĺ	1	
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2.

Describe the climate of the Desert Biome.

3.	What strategies of	do small forest plants h	nave for leading with lo	ow light supply?	
4.		uld happen to the anim I removed each year a	•		•
1.	Classify the followa. bid b. ha c. IF d. ec	of Boreal Coniferous wing organisms from the ological kingdom (animabitat (canopy, shrub, of IT IS A PLANT, what cological role that they arasite, scavenger). N Kingdom	ne Deserts based on t nal, pant, fungi, protist ground, underground) type (evergreen and/o play (producer, decon	, moneran/bacteria) or deciduous and/or co nposer, consumer, om	nivore, predator,
Spruc				, type or organism	
Poplar					
Jack F					
Birch					
Birch	Miner				
Porcu	pine				
Grey C					
Raven					
Horse	fly				
Beave	•				
Mosqu					
Newt					
Sphag	ınum				
Sun D					
Pitche	r Plant				
Blackf	·ly				
Winter	rgreen				
Polytri	ichum				
Blueb	erry				
Brack	en				
Redca	р				
Puffba	ıll				
March	antia				
Lycop	odium				
Bacter	ria				
Black	Bear				
Larch					
Locus					
Cricke	t				
Bee					

Describe the climate of the Temperate Deciduous Forest Biome.

2.

2.	Describe the climate of the Boreal Coniferous Forest Biome.
3.	Why is decomposition especially important in Boreal Coniferous Forests and why does it occur so slowly.
4.	What role does fire play in the biome? What species benefit from fire, and what adaptations do they posses to take advantage of fire?