Vame	Class	Date	
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Skills Worksheet

ENVIRONMENTAL SCIENCE-GREEN

3-1 LAND BIOMES P 50

120 POINTS TOTAL

Section: Land Biomes

THE EARTH'S LAND BIOMES	36pts
1. Features of an environment that are not alive, s	such as soil, water, and climate,
are factors.	
2. The living parts of an environment, plants and a	animals, are
factors.	
3. A large area characterized by its climate and th	e plants and animals that live
there is $a(n)$	
FORESTS	
4. Name the three main types of forest biomes.	
5. Why do deciduous trees shed their leaves?	
6. Forests made up of trees that keep their needle	e-shaped leaves year-round are
called forests.	
7. What are two traits of conifers?	
8. What are the three functions of the waxy coatings	ng on conifer leaves?

Name		Class	Date
Directe	d Reading A continued		
	are two reasons that few larg erous forest?	e plants grow t	peneath the trees of a
		11121	
on Ea	do tropical rain forests have n arth?	iore biological	diversity than other places
11. When	e do most animals live in the	rain forest?	
12. Wher	e are most of the nutrients in	a tropical rain	forest?
GRASSLA	ANDS		
13	3. Which is NOT a name for a	grassland?	
	a. steppe	c. cand	рру
	b. prairie	d. pam	pas
14	1. What prevents temperate gr	asslands from 1	having trees?
	a. too much rain	c. deep	roots
	b. grazing animals	d. rolli	ng hills
1	5. A biome with clumps of tree	es and seasona	l rains is a
	a. temperate grassland.	c. dese	ert.
	b. savanna.	d. trop	ical rain forest.
10	5. Which animal is NOT an exa African savanna?	ample of a large	e herbivore that lives on the
	a. zebra	c. hors	se
	b. wildebeest	d. elep	hant
DESERTS	5		
1	7. A region with few plants, lit called a	tle rain, and ex	treme temperatures is
	a. prairie.	c. dese	ert.
	b. grassland.	d. sava	

Name	Class	Date
Directed Reading A	continued	
18. Name four adaptati	ons of desert plants.	
Match the correct descr	ription with the correct term. Wri	te the letter in the space
19. stores water	from flowers under its shell	a. jack rabbit
20. recycles wat	ter from foods it eats	b. spadefoot toadc. desert tortoise
21. huge ears ge	et rid of body heat	d. kangaroo rat
22. buries self in	n ground during dry season	
TUNDRA		
23. A biome with very of	cold temperatures and little rain	fall is called a(n)
24. The layer of soil in	the polar tundra that is always f	rozen is called
25. Why are shallow-ro polar tundra?	 oted plants, such as grasses and	l small shrubs, common in
26. What is the main wa	ay alpine tundra differs from arc	etic tundra?
27. Define the term <i>tree</i>	e line.	

Name	Class	Date
Skills Worksheet		
D3-2 MARIN	NE ECOSYSTEN	MS PAGE 58
		26pts
Section: Marine Ed	osystems	
1. Ecosystems in the oce	ean are called	
LIFE IN THE OCEAN		
2. What are the largest a	nimals on Earth?	
ů C	oat near the surface of freshedtheir food?	water and marine
TEMPERATURE		
a. It decreasesb. It increasesc. It does not ofd. It varies from	change.	change as it gets deeper?
a. deep zone b. thermocline		rmest water?

- - **d.** middle layer
 - **7.** How does ocean temperature affect whales?
 - **a.** They can only live in cold water.
 - **b.** They can only live in warm water.
 - **c.** They cannot stand sudden temperature changes.
 - **d.** They migrate from cold to warm areas to reproduce.

DEPTH AND			
Match the co provided.	rrect description with the	e correct term. Write	the letter in the space
	arm water and a lot of su oor starts to slope downy	• ,	a. intertidal zoneb. neritic zone
	a floor drops sharply; co the open ocean	ntains deep water	c. oceanic zoned. benthic zone
10. od	ean floor; deepest parts	get no sunlight	
	here the ocean meets the r part of the day	e land; exposed to	
A CLOSER LO	ООК		
ts	ee ways life on Earth de	pends on the ocean	
	ee kinds of intertidal are	as.	
ts			
Name tw	o ways certain organisms	s have adapted to li	ving on rocky shores.
I 5. Name thr	ee marine organisms tha	t live on coral reefs	·
6. A place v	where fresh water from ri	vers mixes with sal	ty ocean water is

Name	Class	_ Date
Directed Reading A continued		
17. Estuaries are rich in nutrients, so	large numbers of	
live there.		
18. How do animals in the Sargasso S	Sea hide from predators	?
19. Does the polar ice ecosystem sup	port much life? Explain	why or why not.

ame		Class	Date
Skills Worksheet	t		
FRESHV	VATER E	ECOSYSTEM	S P 64
			25pts
ection: Fres	shwater Ecos	systems	
REAM AND R	IVER ECOSYSTEM	MS	
Name two pla	aces that water ir	n rivers may come from.	
A strong wid	e stream is a(n)		
		rger stream is a(n)	
wnat is one ii	mportant abiotic	factor in freshwater eco	osystems:
	t description with	the correct term. Write	the letter in the space
ovided.	•	the correct term. Write to a. insects	the letter in the space
ovided 5. attach	to rocks		the letter in the space
ovided 5. attach 6. live ur	to rocks nder rocks	a. insects	
ovided 5. attach 6. live ur 7. use su	to rocks nder rocks action disks	a. insectsb. tadpoles	
ovided. 5. attach 6. live ur 7. use su OND AND LAK	to rocks nder rocks ection disks	a. insectsb. tadpolesc. algae and	moss
covided. 5. attach 6. live ur 7. use su OND AND LAK	to rocks nder rocks ection disks	a. insectsb. tadpoles	moss
ovided. 5. attach 6. live ur 7. use su ND AND LAK atch the correct ovided.	to rocks nder rocks ction disks E ECOSYSTEMS t description with	a. insectsb. tadpolesc. algae and	moss
ovided. 5. attach 6. live ur 7. use su ND AND LAK atch the correct ovided. 8. zone to	to rocks nder rocks action disks E ECOSYSTEMS t description with hat goes as deep	a. insects b. tadpoles c. algae and the correct term. Write	moss the letter in the space a. deep-water zone
ovided. 5. attach 6. live ur 7. use su DND AND LAK atch the correct ovided. 8. zone t home 9. zone v	to rocks nder rocks ction disks E ECOSYSTEMS t description with hat goes as deep to many photosy	a. insects b. tadpoles c. algae and the correct term. Write the as sunlight can reach; which the correct plankton t reaches; organisms	moss the letter in the space

[ame	Class	Date
Directed Reading A continue	d	
1. What enables algae and pl	ants to grow in the littoral	zone?
2. Name three organisms tha	t live in the door water zo	no
ts	t five fit the deep-water 20	ne.
VETLAND ECOSYSTEMS		
Natch the correct description	with the correct term. Write	e the letter in the spac
rovided.		
13. a wetland ecosyste	m with trees and vines	a. wetland
		b. marsh
14. an area of land son		c. swamp
with very moist soi	1	c. Swamp
15. a wetland ecosyste	m that has no trees but	
has other plants		
6. Name three reasons wetla	nds are valuable.	
S		
	ghas often found?	
Milete are freshwater mar	siles often found:	
• Where are guramag found?	,	
8. Where are swamps found?		

Name	Class	Date
Directed Reading A	continued	
FROM A LAKE TO A I	OREST	
19. What happed decompose	ens when plants and animals at?	the bottom of a lake
	ife in the lake increases.	
b. The lake	has more water.	
c. Oxygen	is lost, affecting the animals tha	at live in the lake.
d. Living co	onditions for fish improve.	
20. How does a	a lake start to become a forest?	
a. Plants gr	row closer to the center of the l	ake.
b. Sedimen	t and leaves settle at the bottor	n of the lake.
c. The lake	becomes a swamp.	
d. Fishes d	ie off due to lack of oxygen.	

Jame	Class	Date	

Skills Worksheet

Reinforcement

21pts

Know Your Biomes

Complete this worksheet after you finish reading the section "Land Biomes."

- 1. Using the "Temperature & Rainfall" column as a guide, label the biomes using the following terms: desert, tropical rain forest, tundra, coniferous forest, temperate grassland, savanna, and temperate deciduous forest.
- **2.** Use the examples and characteristics given in the box on the next page to fill in the appropriate blanks.

Type of Biome	Temperature & Rainfall	Examples & Characteristics			
	summer: 38°C winter: 7°C rain: less than 25 cm per year	jack rabbit			
	dry season: 34°C wet season: 16° C rain: 150 cm per year	has scattered clumps of trees			
	daytime: 34°C nighttime: 20°C rain: up to 400 cm per year	the most biologically diverse biome			
	summer: 28°C winter: 6°C rain: 75-125 cm per year	woody shrubs			
	summer: 12°C winter: -26°C rain: 30-50 cm per year	has no trees			

Name	Class	Date

Reinforcement continued

Type of Biome	Temperature & Rainfall	Examples & Characteristics
	summer: 14°C winter: –10°C rain: 35–75 cm per year	waxy coating on needles
	summer: 30°C winter: 0°C rain: 25–75 cm per year	supports small seed-eating animals

	Examples and Characteristics
Α	caribou
В	bison
B C	giraffe
D E	woodpecker
Е	porcupine
F	most animals live in the canopy
G	animals are active at night
Н	trees produce seeds in cones
П	very few trees
J	plants spaced far apart
Κ	permafrost
L	trees lose leaves in fall
M	home to many large herbivores
Ν	most nutrients in the plants

Name	Class	Date	
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Activity

Vocabulary Activity

12pts

Eco-Puzzle

After you finish reading the chapter, complete this puzzle. In the space provided, write the term described. Then find those words in the puzzle on the next page. Terms can be hidden in the puzzle vertically, horizontally, diagonally, or backward.

1. a treeless plain found in polar regions and at the tops of mountains: **2.** a hot, dry biome that receives less than 25 cm of rain a year: **3.** the zone of a lake or pond closest to the edge of the land: **4.** a treeless wetland ecosystem: **5.** microscopic organisms in waters of freshwater and marine environments: **6.** large region characterized by climate and certain types of plants and animals: **7.** a wetland ecosystem with trees: **8.** zone of a lake or pond where no light reaches: **9.** an area where fresh and salt waters constantly mix: 10. land that is sometimes under water or has soil with a great deal of moisture: **11.** a tropical grassland with scattered clumps of trees: **12.** zone of lake or pond that extends across the top of the water:

Name	Class	Date
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Vocabulary Activity continued

3 pts bonus

Find the terms in this puzzle. Terms can be hidden vertically, horizontally, diagonally, or backward.

Т	S	N	О	D	Е	S	Е	R	Т	Α	R	I	N	R	Х	Т
U	V	N	W	S	Т	R	0	В	Υ	Z	I	0	Т	Т	U	G
N	Е	D	Е	Е	Р	W	Α	Т	Е	R	Р	N	S	0	V	L
D	В	Α	Т	Е	Α	Н	R	Е	L	I	Т	Т	0	R	Α	L
R	О	Р	L	R	М	О	С	Н	Α	N	R	N	U	Α	L	С
Α	N	Υ	Α	Т	Υ	K	Е	О	N	С	О	L	Т	0	I	F
Р	Υ	Α	N	F	Α	L	D	Р	D	Т	Е	В	В	R	Е	D
Н	R	Е	D	Α	L	В	J	Е	К	О	Т	0	М	М	Е	S
0	Α	G	R	Р	R	I	N	N	Е	L	I	Т	0	N	С	Α
Т	U	S	Е	I	G	N	Α	W	I	N	М	I	L	0	R	N
О	Т	Р	I	R	Α	L	D	Α	F	Α	В	R	Е	L	I	N
М	S	I	Z	W	Р	R	U	Т	Α	V	Α	Е	N	Q	L	Α
О	Е	W	Α	L	Е	Α	Х	Е	Р	I	G	Н	О	U	Е	V
L	V	R	Е	Υ	N	U	Е	R	I	S	W	Α	М	Р	R	Α
Α	О	L	I	R	О	Q	S	Α	R	K	I	Р	R	Р	I	S
Т	L	Р	S	Α	М	Α	R	S	Н	Α	S	Α	N	Α	V	Е
Н	Е	N	Т	0	Е	W	Е	Н	Т	ı	Н	N	Α	В	0	V