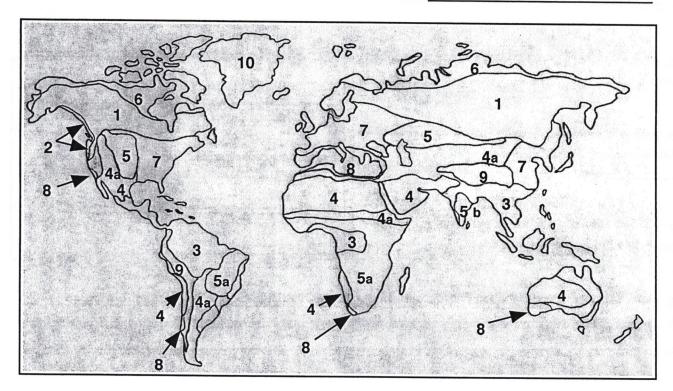
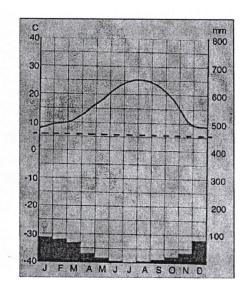
Topic: Biomes, climates, soils

Name \_\_\_\_\_



Use the world map above, climate graphs, photographs and biome data to answer the questions below.

- 1. Name the climate type shown by the graph on the right.
- 2. At which location on the world map would this climate be found? \_\_\_\_\_
- 3. Name the biome which corresponds with this climate type.
- 4. List 2 serious threats to this biome.



Topic: Biomes, climates, soils

Name \_\_\_\_\_

5. Which climate graph on page 213 is associated with Biome Data A?

- 6. Which number on the world map on p. 211 shows the biome described by Biome Data A?
- 7. Which map location would best represent the biome in **Photograph 1** below?

_	_		_			
	-	me				
$\mathbf{r}$	ıo	me		121	12	Δ
	. •		, _			$\overline{}$

## Characteristics

- short growing season
- · mosses and lichens
- caribou migration



Decomposing organic matter

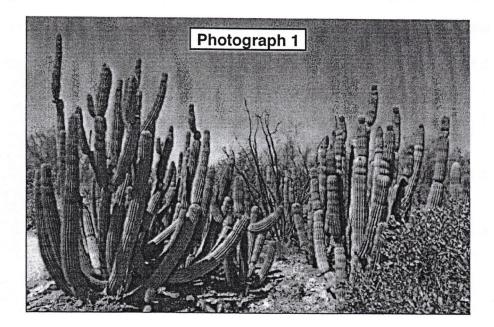
Permafrost; slow decomposition; waterlogged layers

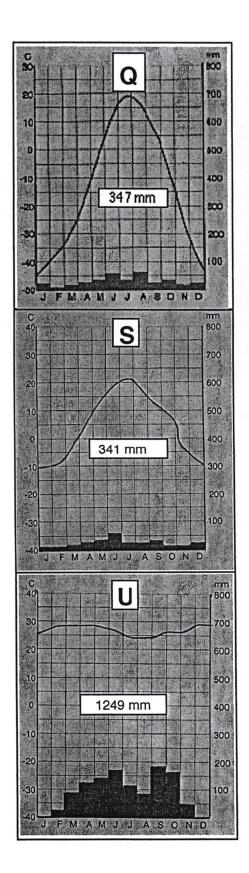
Bedrock Parent material

8. List 2 ways the vegetation in Photograph 1 has adapted to the climate conditions in this region.

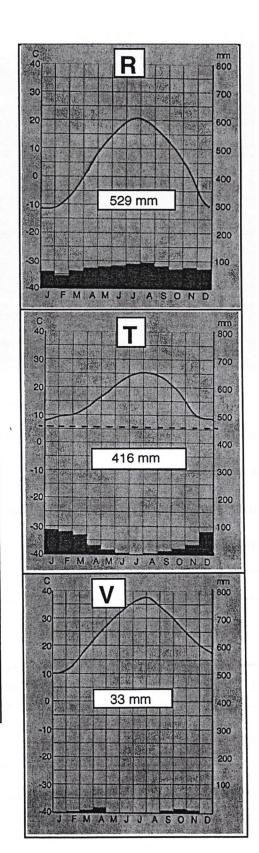
L

9. Which climate graph on p. 213 is associated with the biome in Photograph 1?





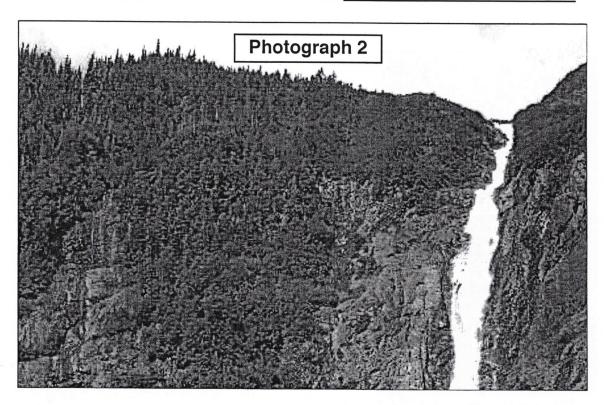
## M E G R



Unit 4: Biosphere

Topic: Biomes, climates, soils

Name \_\_\_\_\_



Use Photograph 2 above to answer questions 10-16

10. Which map location on p. 211 I	pest represents the biome in	Photograph 2?	
11. Name this biome.			
12. Which climate graph on p. 213	B best represents the biome s	shown in Photograph 2?	
13. List three serious threats to	this biome.		
	<del></del>		
14. Which human activity listed b		ation? Circle the correct letter.	2 2 1 <b>T</b> O 10 10
a. grain farming c. softwood logging	<ul><li>b. fruit production</li><li>d. cattle ranching</li></ul>		
15. Name the soil of this region.		Why is this soil so acidic?	
16 Give 2 ways that the conifer	*************	h	
16. Give 2 ways that the conifer	trees of this region combat t	ne effects of neavy winds.	

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Unit 4: Biosphere

Topic: Biomes, climates, soils

Name		
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## Use Biome Data B below to answer questions 17-22

- 17. Which map location best represents the biome data on the right?
- 18. Identify the natural vegetation found in this biome.
- 19. Which of the following human activities best represents this location?
  - a. citrus fruit growing
  - b. softwood lumber industry
  - c. deciduous hardwood harvesting
  - d. ranching and grain growing

	— Bio	me Data B -
Characteristics  • rainshadow region • convection rainfall in summer months		Black, dark brown humus-filled loam Yellowish brown subsoil Gray yellow silt loam Lime carbonate Bedrock

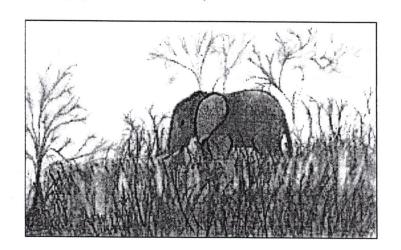
- 20. Which climate graph from p. 213 is associated with this biome data?
- 21. Name the soil type in Biome Data B above?
- 22. For this soil, which of the following is a prominent soil forming process?

  a. leaching

  b. capillary action

Use the illustration below and the climate graphs on page 213 to answer questions 23-25

- 23. Which map location best represents the biome in this illustration?
- 24. Which climate graph best represents the biome in this illustration?
- 25. List 2 threats to this biome.



tions 26-31	5' 5 6
Characteristics  • low pressure belt • wet all year • broadleaf evergreen forest, lianas	Thin humus layer Red iron oxide concentrations  Red subsoil  Bedrock Parent material
apted to the climate conditio	ns in this region.
ine leaching	
me leaching.	
	<ul> <li>low pressure belt</li> <li>wet all year</li> <li>broadleaf evergreen forest, lianas</li> </ul>

Unit 4: Biosphere

Topic: Biosphere Terminology

lama		
Name		

Fill in the blanks choosing the correct term from the box below.

laterite	deciduous	microtherm	podzol
silviculture	wetlands	xerophytes	biome
lianas	biotic	chernozem	leaching
sierozem	prairie	fertilizers	terracing
humus	capillary action	extirpation	fallow
transpiration	herbivores	permafrost	food chain
pampas	extinction	terra rosa	abiotic
crop rotation	carnivores	photosynthesis	steppe

1. Drought loving plants of desert regions.
2. The red iron rich soil of tropical rain forests is called
3. Non-living components of ecosystems are referred to as
4. Animals that feed on plant tissue are known as
5 is the sticky, partly decomposed organic matter at the soil surface.
6. A plant that can endure low temperatures is a
7. The science of caring for our forest lands.
8. Dissolved nutrients are brought to the surface in dry areas by this process
9 refers to the local elimination of a species.
10. Flesh eating consumers are called
11 refers to the loss of water vapour from plants to atmosphere.
12. Acidic soil of coniferous forest region.
13. Living components of ecosystems are referred to as
14. Death of all members of a species.
15. Temperate grasslands of North America found in the rain shadow of great mountain ranges.
16. This sandy soil has a poor profile and is found in desert regions.
17. Frozen subsoil in the sub-arctic is called
18. A bi-product of this process is oxygen.
19. This nutrient rich soil is found in temperate grasslands of North America and Asia.
20. The cause of growing number of dead zones in our oceans

Unit 4: Biosphere Topic: Biosphere Terminology Name \_\_\_

21. Soil found in the Mediterranean region with chaparral vegetation.
22. Grassland region stretching from Asia to China is called
23. Dissolved nutrients are taken deep into the lower soil layers by this process.
24. These grasslands are found in Argentina
25 trees drop their leaves and remain dormant through the cold winter months.
26. The movement of energy through a system is known as a
27. A planetary ecosystem that has specific plants and animals is known as a
28. This process allows the native vegetation to flourish and over several years the nutrient content of the
soil recovers naturally
29. Tropical rain forest vines
30. This farming method conserves nutrients in the soil keeping soils healthier
31 is a method of farming on severe slopes that significantly reduces water
erosion.
32. To help minimize the reduction in the number of all types of birds, it is essential to preserve
, which are stop-overs on long migration routes.