

Name: \_\_\_\_\_

## Biomes Worksheet

### Part 1- Mystery Biomes

Graph the temperature and precipitation data in the tables below, then compare the graphs to the graphs in your textbook to determine what biomes these data represent.

→ Use the climate graphs in chapter 7 starting on page 155.

Mystery biome #1: \_\_\_\_\_

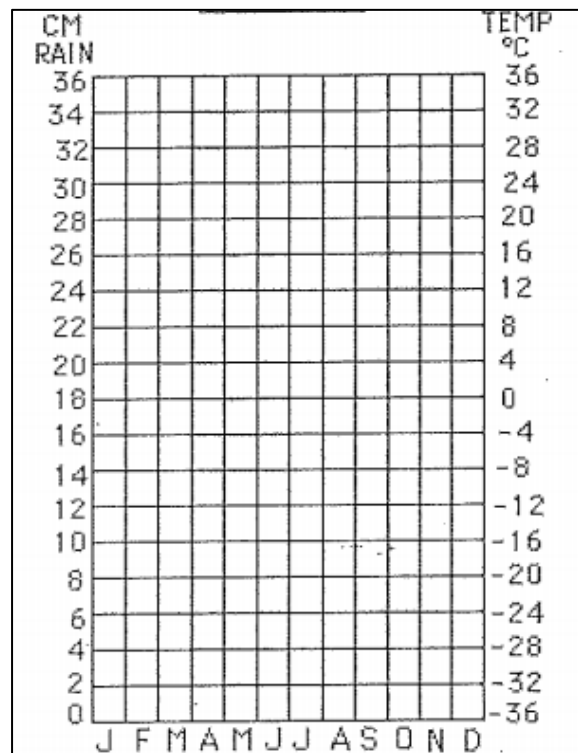
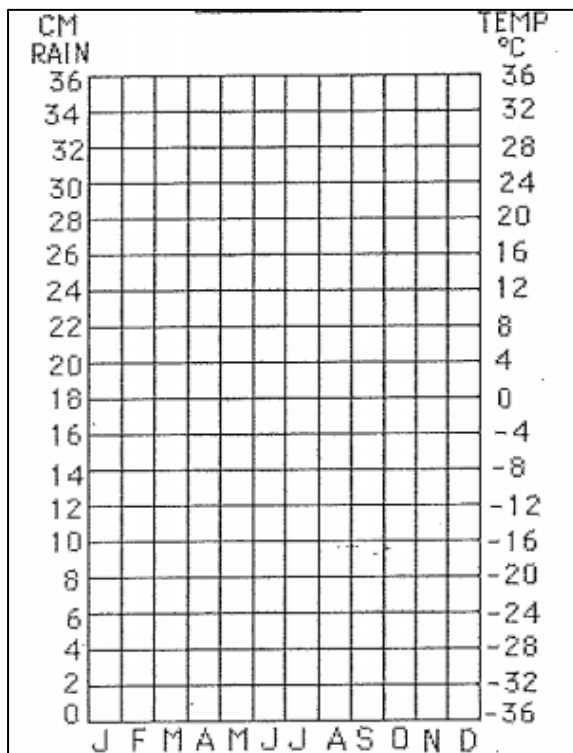
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Temperature (°C)	24.6	25.1	26.4	28.5	30.6	31.9	31.1	30.3	31.1	28.8	26.5	25.1	×
Precipitation (cm)	.8	.5	1.3	0.5	0.3	0.3	0.0	0.3	0.3	0.3	0.3	0.3	5.2

Mystery biome #2: \_\_\_\_\_

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Temperature (°C)	20.0	20.1	20.6	21.3	22.1	23.0	23.2	23.6	23.7	23.3	22.2	20.9	×
Precipitation (cm)	50	45	48	94	72	54	59	55	54	51	64	67	718

Mystery biome #1: \_\_\_\_\_

Mystery biome #2: \_\_\_\_\_



Describe each mystery biome's distinguishing/unique characteristics:

**Mystery biome #1:** \_\_\_\_\_

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**Mystery biome #2:** \_\_\_\_\_

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### Part 2- Connecting Climate Data to Biomes

Using the climate graphs in your textbook, complete the data table below.

→ Use the climate graphs in chapter 7 starting on page 155.

	Temperature				Precipitation			
	High	Month	Low	Month	High	Month	Low	Month
Tropical desert								
Temperate desert								
Cold desert								
Tropical grassland (savanna)								
Temperate grassland								
Cold grassland (arctic tundra)								
Tropical rainforest								
Temperate deciduous forest								
Northern coniferous forest (taiga)								

### Part 3- Understanding Ecosystems and Human Impacts

Based on the 3-biome descriptions that follow, use the data table above and the climate graphs in chapter 7 to determine the biome. Then, using the textbook draw the food web for each biome. Refer to the food webs in Chapter 7 and in Supplement 6, page S20-S25.

<p>1) This biome is found in warm or hot climates where the rainfall peaks at about 125 cm during a concentrated six to eight month period of the year, followed by a long drought when fires can occur.</p>	
<p>Biome: _____</p>	
<p>Draw a food web for the biome. Include all trophic levels, use arrows showing the flow of energy and be as detailed as possible. You do not need to draw the plants and animals, just write the names.</p>	<p>For this biome and its counterparts (Choices are deserts, grasslands, or forests), List the major human impacts on this type of terrestrial ecosystem. → Textbook page 165 or last page of your notes.</p>
Empty space for drawing a food web	Empty space for listing human impacts

<p>2) This biome is characterized by an average of six frost-free months (although exceptions do occur). There are four distinct seasons and the summer high temperature is around 30 °C occurring in July and August; precipitation typically peaks in May at about 130 cm.</p>	
<p>Biome: _____</p>	
<p>Draw a food web for the biome. Include all trophic levels, use arrows showing the flow of energy and be as detailed as possible. You do not need to draw the plants and animals, just write the names.</p>	<p>For this biome and its counterparts (Choices are deserts, grasslands, or forests), List the major human impacts on this type of terrestrial ecosystem. → Textbook page 165 or last page of your notes.</p>
Empty space for drawing a food web	Empty space for listing human impacts

3) This biome is characterized by plants that are spaced apart due to limiting factors and consist primarily of succulents (that are adapted heat and dry conditions to retain water for long periods) and short-lived wildflowers. Average annual temperatures range from just below freezing to 23 °C.

Biome: \_\_\_\_\_

Draw a food web for the biome. Include all trophic levels, use arrows showing the flow of energy and be as detailed as possible. You do not need to draw the plants and animals, just write the names.

For this biome and its counterparts (Choices are deserts, grasslands, or forests), List the major human impacts on this type of terrestrial ecosystem.  
→ Textbook page 165 or last page of your notes.

## Part 4- Choose-A-Biome

There are four biomes remaining. Choose one of them. 1) Identify the biome; 2) Describe the biome's distinguishing/unique characteristics—read the textbook; 3) draw the food web

Biome: \_\_\_\_\_

Distinguishing/unique characteristics:

Food web: