-20 31-	A	AND DESCRIPTION OF THE PARTY OF			1000	1.00
Name		Period	Date			
SECTION 18.4	BACTERIA AND	ARCHAEA J ide				
KEY CONC	EPT	VOCABULARY				
Bacteria and archaea are both		obligato apagrobo	nlaemid	ondoene	vro	

single-celled prokaryotes.

obligate anaerobe	plasmid	endospore	
obligate aerobe	flagellum		
facultative aerobe	conjugation		

MAIN IDEA: Prokaryotes are widespread on Earth.

- **1.** What two groups of organisms include all prokaryotes on Earth?
- **2.** Some prokaryotes don't need oxygen to live. Where are three environments where methane-producing archaea have been found?

MAIN IDEA: Bacteria and archaea are structurally similar but have different molecular characteristics.

In the top left of the Y shape, write the characteristics of bacteria. In the top right, write the characteristics of archaea. At the bottom, write the characteristics bacteria and archaea have in common. Then lightly cross out those characteristics at the top of the Y.



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MAIN IDEA: Bacteria have various strategies for survival.

- **3.** What is binary fission?
- 4. Describe one way that prokaryotes exchange genetic material.
- 5. How do some bacteria survive unfavorable conditions?
- 6. How is an endospore formed?

Vocabulary Check

CHAPTER 18 Viruses and Prokaryotes

obligate anaerobe obligate aerobe	facultative aerobe plasmid	flagellum conjugation	endospore				
7. Can survive whether oxygen is present or not							
	8. Long whiplike structure used for movement						
	• Needs oxygen to survive						
1	. Specialized prokaryotic cell that can withstand harsh conditions						
1	11. Prokaryotic method of gene exchange						
1:	2. Cannot live in the prese	nce of oxygen					
13. Separate circular piece of a prokaryote's genetic material							