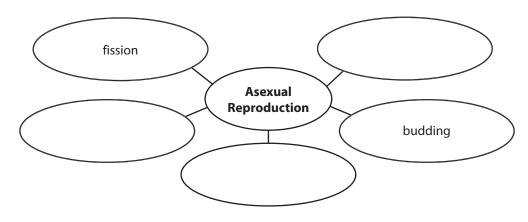
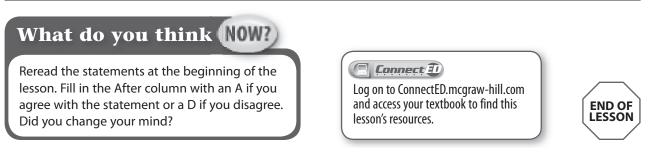
After You Read ······

Mini Glossary

- **asexual reproduction:** a form of reproduction in which one parent organism produces offspring without meiosis and fertilization
- **budding:** a form of asexual reproduction that occurs when a new organism grows by mitosis and cell division on the body of its parent
- **cloning:** a type of asexual reproduction performed in a laboratory that produces identical individuals from a cell or from a cluster of cells taken from a multicellular organism
- **fission:** cell division in prokaryotes that forms two genetically identical cells
- **regeneration:** a form of asexual reproduction that occurs when an offspring grows from a piece of its parent
- **vegetative reproduction:** a form of asexual reproduction in which offspring grow from a part of a parent plant
- **1.** Review the terms and their definitions in the Mini Glossary. Write a sentence that compares regeneration and vegetative reproduction.
- **2.** Fill in the spider map below with the different types of asexual reproduction. Use terms from the Mini Glossary.



3. How did discussing what you learned from each paragraph with another student help you learn about asexual reproduction?

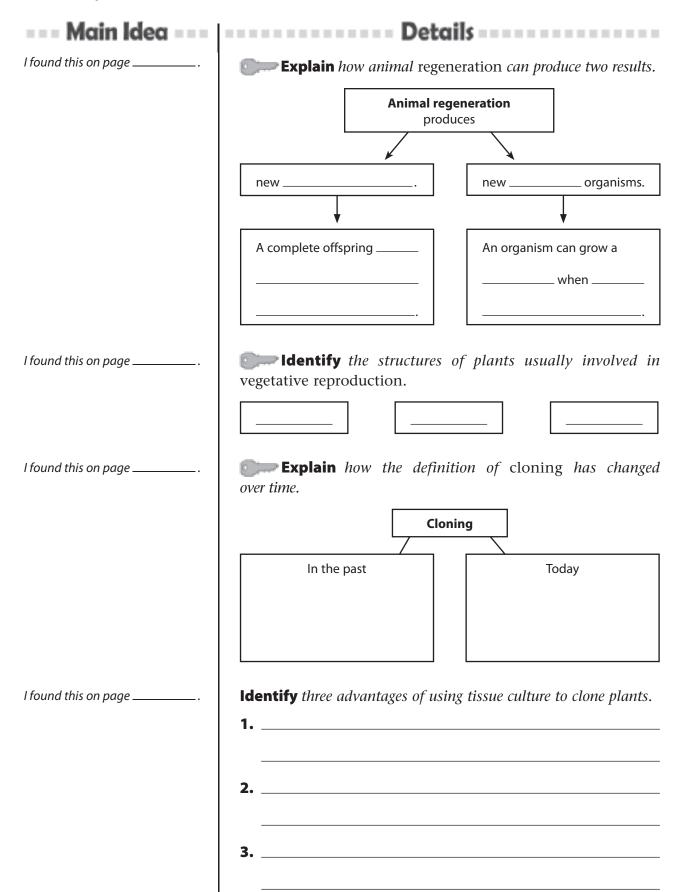


Lesson 2 | Asexual Reproduction (continued)

Main Idea	Details
I found this on page	Sequence <i>the steps of cell division through</i> fission.
	 Fission starts with a prokaryote, which does not have a membrane-bound nucleus.
	2. The prokaryote's is copied.
	3. The cell grows longer, pulling the two apart.
	4. The cell membrane
	5. The cell splits. Two are formed.
l found this on page	Write a complete sentence that defines mitotic cell division and identifies what type of organism undergoes the process.
I found this on page	Draw <i>a representation of</i> budding. <i>Write a definition of the term on the lines below your drawing</i> .
	Definition:

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Lesson 2 | Asexual Reproduction (continued)



Main Idea Details I found this on page ______. Sequence the steps scientists used to produce the cloned sheep, Dolly. 1. A cell is removed from the first animal. DNA is removed from an unfertilized egg cell from a second animal. 2. The cells from the two animals are ______. The new cell contains ______.

3. The cell develops into an embryo in the lab.

4. _

animal that donated the unfertilized egg.

5. A new individual is born. This individual is an _____

Classify *features of* asexual reproduction *as advantages or disadvantages. Write "A" for advantage and "D" for disadvantage in the center column of the table below. Explain your reasoning in the right-hand column.*

Does not require a mate	
Can occur rapidly	
Produces little genetic variation	

Synthesize It Use your understanding of asexual reproduction to explain why it is important that organisms reproduce in a variety of ways.

I found this on page _____

 _____ into the