Lesson 2 Asexual Reproduction

Predict *three facts that will be discussed in Lesson 2 after reading the headings. Write your facts in your Science Journal.*



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Lesson 2 | Asexual Reproduction (continued)

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iouna (ins 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.
	Draw <i>a representation of</i> budding. <i>Write a definition of the</i>
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Lesson 2 | Asexual Reproduction (continued)



Lesson 2 | Asexual Reproduction (continued)

I found this on page	Details Sequence the steps scientists used to produce the cloned sheep, Dolly				
	 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				
	3. The cell develops into an embryo in the lab.				
	4 into the animal that donated the unfertilized egg.				
	5. A new individual is born. This individual is an				
	in the center column of the table below. Explain your reasoning in the right-hand column.				
I found this on page	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.

Review Reproduction of Organisms

Chapter Wrap-Up

Now that you have read the chapter, think about what you have learned. Complete the **What I Learned** column on the first page of the chapter.

Use this checklist to help you study.

- ☐ Complete your Foldables[®] Chapter Project.
- □ Study your *Science Notebook* on this chapter.
- □ Study the definitions of vocabulary words.
- □ Reread the chapter, and review the charts, graphs, and illustrations.
- **Q** Review the Understanding Key Concepts at the end of each lesson.
- □ Look over the Chapter Review at the end of the chapter.



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 Summarize It Reread the chapter Big Idea and the lesson Key Concepts. Imagine how the human population would be different if humans reproduced asexually. Explain how this could be both an advantage and a disadvantage to humans and to other organisms.

Challenge *Design two models that demonstrate how genetic material is passed from parents to offspring in meiosis and in mitotic cell division. Present your models to the class, and explain the processes that they represent.*