

# 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.

## Main Idea

**What is asexual reproduction?**  
I found this on page \_\_\_\_\_.

I found this on page \_\_\_\_\_.

**Types of Asexual Reproduction**  
I found this on page \_\_\_\_\_.

I found this on page \_\_\_\_\_.

I found this on page \_\_\_\_\_.

I found this on page \_\_\_\_\_.

I found this on page \_\_\_\_\_.

## Details

**Identify** key points about asexual reproduction. Cross out the terms that do not apply to the process.

single parent organism	fertilization	genetically identical	meiosis
diploid parent cells	offspring produced	2 parent organisms	haploid daughter cells

**Summarize** asexual reproduction in your own words.

---



---

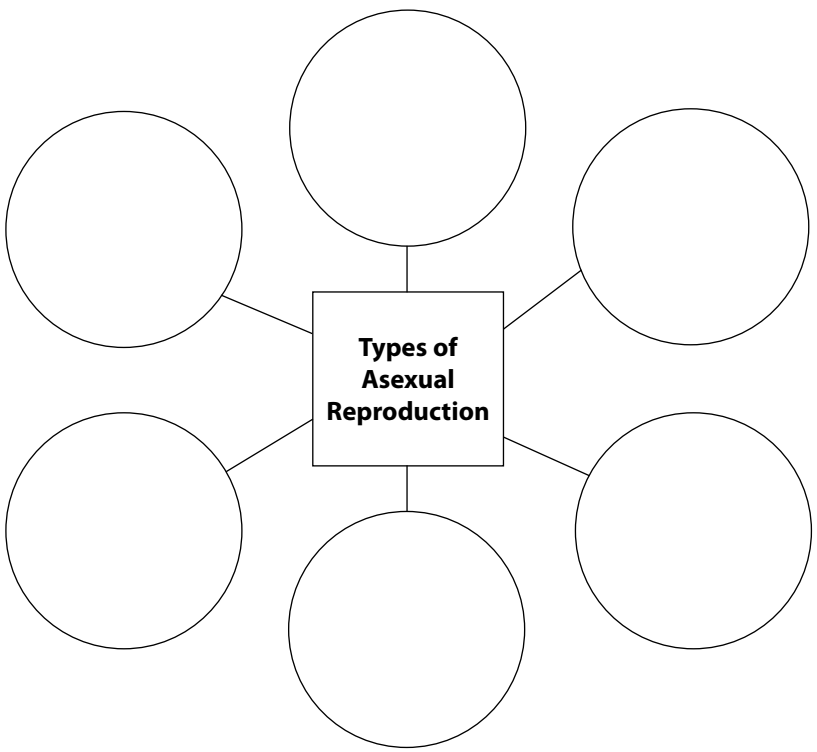


---



---

**Identify** the 6 types of asexual reproduction.



Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc.

## Lesson 2 | Asexual Reproduction (continued)


### Main Idea

I found this on page \_\_\_\_\_.


I found this on page \_\_\_\_\_.

I found this on page \_\_\_\_\_.

### Details

 **Sequence** the steps of cell division through fission.

- |  |
|--|
| 1. 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 _____<br>_____.   |
| 5. The cell splits. Two _____ are formed.  |


 **Write** a complete sentence that defines mitotic cell division and identifies what type of organism undergoes the process.

---

---

---

---

 **Draw** a representation of budding. Write a definition of the term on the lines below your drawing.

Definition: \_\_\_\_\_

---

---

---

## Lesson 2 | Asexual Reproduction (continued)

### Main Idea

I found this on page \_\_\_\_\_.

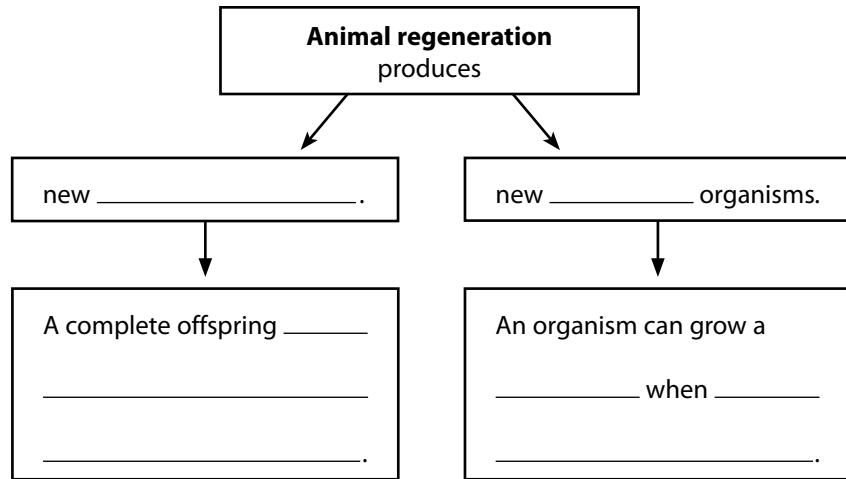
I found this on page \_\_\_\_\_.

I found this on page \_\_\_\_\_.

I found this on page \_\_\_\_\_.

### Details

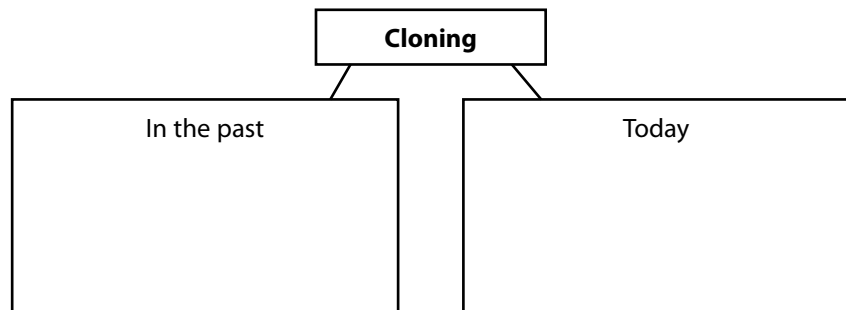
**Explain** how animal regeneration can produce two results.



**Identify** the structures of plants usually involved in vegetative reproduction.

_____	_____	_____
-------	-------	-------

**Explain** how the definition of cloning has changed over time.



**Identify** three advantages of using tissue culture to clone plants.

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_
3. \_\_\_\_\_  
\_\_\_\_\_

## Lesson 2 | Asexual Reproduction (continued)


### Main Idea

I found this on page \_\_\_\_\_.

### Details


**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. _____ into the 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.

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.

---



---



---



---

