

Objectives: Ch. 15-3 Evidence of Evolution

- Students will:
- A) Compare artificial selection (selective breeding) to natural selection
- B) List the four pieces of evidence of evolution that Darwin identified.
- C) Summarize how each supports the evolution theory.

A) Compare artificial selection (selective breeding) to natural selection

Artificial Selection	Natural Selection
_____ provides _____, _____ select variations that are _____.	<ul style="list-style-type: none"> <li>• The _____ that help an organism _____ in a particular _____ are "_____"</li> <li>• Nature provides _____, nature selects variations that are _____.</li> <li>• Animals breed _____</li> </ul>
Example - a farmer breeds only his _____	
_____	
_____	


B) List the four pieces of evidence of evolution that Darwin identified.

### Evidence of Evolution

- 1.
- 2.
- 3.
- 4.

C) Summarize how each supports the evolution theory.

1. \_\_\_\_\_ provides \_\_\_\_\_ of \_\_\_\_\_ show \_\_\_\_\_

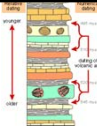


Supports \_\_\_\_\_

C) Summarize how each supports the evolution theory.

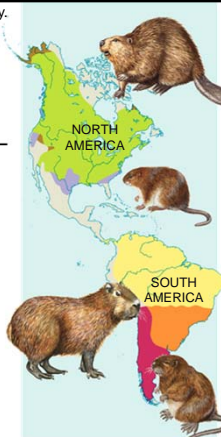
1. **The Fossil Record**

Relative Dating	Absolute Dating
<ul style="list-style-type: none"> <li>• Determines fossil's _____</li> <li>• Estimates fossil age _____ to other _____</li> <li>• Drawback = _____</li> </ul>	<ul style="list-style-type: none"> <li>• Determines _____ in _____</li> <li>• Performed by _____</li> <li>• Drawback - _____</li> </ul>



C) Summarize how each supports the evolution theory.

2. \_\_\_\_\_ with different lines of \_\_\_\_\_ Similar \_\_\_\_\_ result in \_\_\_\_\_



Supports \_\_\_\_\_

C) Summarize how each supports the evolution theory.

3. \_\_\_\_\_

\_\_\_\_\_

**Structures that have \_\_\_\_\_ but develop from the \_\_\_\_\_**

\_\_\_\_\_

**Supports:**

### Vestigial Organs

- traces of \_\_\_\_\_
- in other species
- Organ that serves \_\_\_\_\_

C) Summarize how each supports the evolution theory.

4. \_\_\_\_\_

**In the early stages of development, \_\_\_\_\_**

**Supports:**

**STAR Question**

Which of the following embryos is the oldest? Why do you think it is the oldest?

A. Magnification 2X

C. Magnification 1X

B. Magnification 1X

D. Magnification 2X

### Understanding Check

- 1. Who or what chooses how organisms mate in artificial selection?
- 2. Who or what chooses how organisms mate in natural selection?
- 3. List the 4 pieces of evidence for evolution.
- 4. What is a worthless organ called?