

BIOLOGY CONCEPTS — Evidence of Evolution

VIDEO ACTIVITY SHEET





UNIT 1

1. Why is it so unusual to find internal organs with fossils?

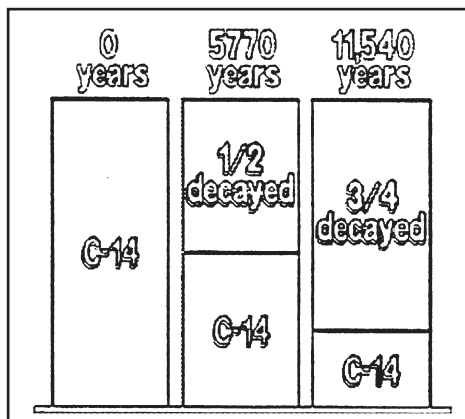
2. How can scientists tell the age of fossils?

UNIT 2

3. Using the RELATIVE DATING method, which of these fossils would be the oldest? Which would be the most recent?

	Fish
	Horse Head Skull
	Fern
	Clam

4. RADIOACTIVE DATING - Using this chart measuring the decay of Carbon-14, determine the age of a fossil that has 1/4 of its carbon-14 left.



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UNIT 3

5. What parts of your body are shaped like parts of another animal?

6. What organs in our bodies perform NO FUNCTION but are SIMILAR to organs that do serve a purpose in other animals?

UNIT 4

7. How old is the earth?





50 million years?

100 million years?

several billion years?

8. How many eras are shown on this time scale?

GEOLOGICAL TIME SCALE

Era	Years Before Present Time	Changes in Plant and Animal Life
Pre-Cambrian	4,600,000,000	
Paleozoic	570,000,000	
Mesozoic	225,000,000	
Cenozoic	65,000,000	

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9. Write your observations about the GENERAL TREND of development of life on

UNIT 5

10. ADAPTATION - List animals that blend into their environment.

11. Which lizard offspring have the best chance to survive in the desert?

- a) Light colored b) Dark colored

12. Why is hibernation important for the survival of bears?

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PROGRAM 10 EXAMINATION

For each statement or question, select the word or expression that best completes the statement or answers the question.

1. The remains of organisms that lived in the past are called:
(a) fossils (b) genes (c) amber (d) rock.
2. A substance which can be used to date fossils is:
(a) hydrogen (b) carbon-14 (c) carbon-12 (d) phosphorous.
3. Paleontologists study:
(a) stars (b) animals (c) fossils (d) plants.
4. A theory of evolution was proposed by:
(a) Charles Darwin (b) IsaacAsimov (c) Richard Harris (d) Albert Einstein.
5. The human coccyx is an example of a:
(a) vital organ (b) male structure (c) vestigial organ (d) a mutation.
6. An example of a long geological time is:
(a) second (b) light year (c) nano-second (d) era.
7. Organisms inherit their traits by means of:
(a) genes and chromosomes (b) vasculartissue
(c) fossils (d) antibiotics.
8. A major characteristic of organisms that enables them to survive is:
(a) muscularation (b) adaptation (c) shedding (d) pronation.
9. The study of the development of plants and animals is called:
(a) histology (b) astronomy (c) zoology (d) embryology.
10. Fossils are often found in:
(a) tar pits (b) sedimentary rock (c) amber or resin
(d) all responses are correct.

THOUGHT QUESTION:

Some people feel that the study of evolution is similar to the study of history. What do you think?

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