

1. Which is NOT part of Lamarck's theory?

- A. Spontaneous generation of new organisms continues
- B. Animals strive over time for perfection, seeking to become more complex
- C. Animals can change, adapting to environments by using some organs more and enlarging them
- D. Changes that happen to animals during their lifetimes can be inherited by their children
- E. New kinds of animals, such as birds, are not descended from earlier animals, but are new creations.

2. Which is NOT a theory that was in an article in the Annual Editions?

- A. Female primates are less likely to be injured by male aggression if they live their lives near their relatives
- B. Apes have culture; chimps get food in different ways in different troops
- C. Primates are cooperative breeders, helping each other in mothering
- D. Monkeys steal food more often from humans who are looking the other way
- E. Estrus is not found in species of primates that have many males breeding with each female

MATCH ONE TO ONE: (5 points)

C Linnaeus

J Lamarck

H Spencer

T Malthus

Buffon

Ussher

G Cuvier

J Hutton

C Lyell

Boucher de Perthes

_____ studied sea invertebrates, he was hired by Buffon, and his theory of evolution was based on the Inheritance of Acquired Characteristics

_____ wrote about populations, survival of the fittest, and how all species tend to over-reproduce

_____ said the earth was older than thought, with no evidence of a beginning, inspiring Buffon to estimate the age of the earth as 70,000 years or more

_____ this archbishop calculated from the Bible that the earth was created in 4004 b.c.

_____ Father of paleontology, last scientist to promote catastrophism, created name "dinosaur"

_____ gave each species a binomial name, and classified in nested categories based on anatomy

_____ tried to write about everything, and suggested animal species had changed since the creation by migrating to different environments

_____ was responsible for popularizing the term "evolution", and for Social Darwinism as well

_____ proved that Thunderstones were not made by lightning, but by ancient humans

_____ built modern geology on the work of Hutton, and showed catastrophism was not necessary to explain geology

MATCH ONE TO ONE: (3 points)

EVOLUTION

UNIFORMITARIANISM

CATASTROPHISM

SOCIAL DARWINISM

INHERITANCE OF ACQUIRED CHARACTERISTICS

DESCENT FROM A COMMON ANCESTOR

_____ In the philosophy of science, the assumption that the natural processes that operated in the past are the same as those that can be observed operating in the present. Its methodology is frequently summarized as "the present is the key to the past," because it holds that all things continue as they were from the beginning of the world.

_____ The idea that animals that are placed in a single category, like one genus, share characteristics that they inherited from the same ancient ancestral species

_____ humans societies compete against one another; those that win the competitions do so because they are inherently superior

_____ Animals today are different from the animals of the past, but they are descended from them

_____ Changes that happen to animals during their lifetimes can be inherited by their children

_____ the geology of the earth is a result of a few major events, not from slow gradual change

PRINT FIRST NAME _____ LAST NAME _____

BONUS QUESTION: What was the Enlightenment idea of a Clockmaker God (Deism)?

