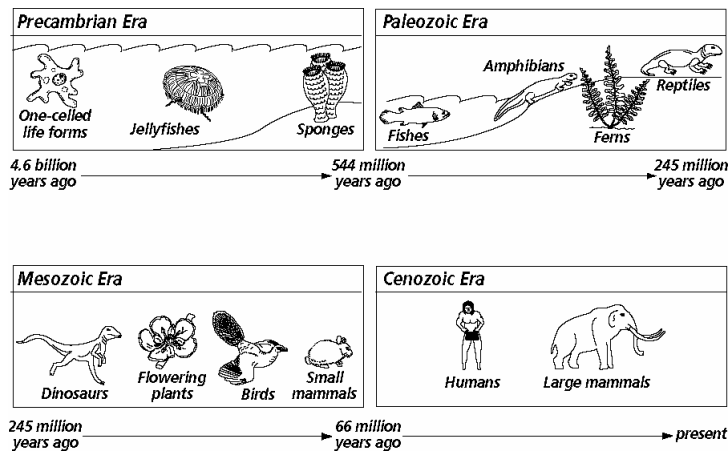


## Evolution Mini Quiz

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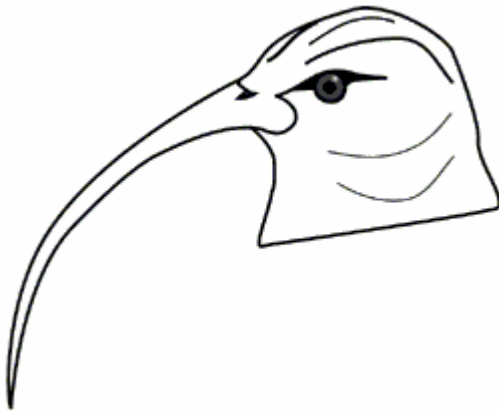
### MULTIPLE CHOICE

- Geological dating of rock is based on measuring the amount of radioactive
  - proteins.
  - molecules.
  - isotopes.
  - microsatellites.
- The deeper a fossil is found in the ground,
  - the older it is likely to be.
  - the younger it is likely to be
  - the more rare it is
  - the harder it is to age
- Which of the following is NOT a cause for evolution?
  - Gene flow
  - Natural Selection
  - Random mating
  - Mutations
- A group of whales migrated into the warm waters of Maui. They have entered into the local whale population. This scenario is an example of:
  - Genetic drift
  - Gene flow
  - Natural selection
  - Nonrandom mating
- Nectar is produced in many flowers as a delicious reward for its pollinators. A hummingbird is able to reach the tasty nectar of a flower which is hidden deep within the carpel. He is able to do so because of his unique long beak and tongue. This is an example of:
  - Nonrandom mating
  - Genetic drift
  - Natural selection
  - Gene flow
- The Geologic Time Scale begins at the formation of Earth approximately \_\_\_\_\_ years ago.
  - 4.6 thousand
  - 4.6 million
  - 46 million
  - 4.6 billion
- While looking for fossils on an eroded hillside, you discover fossil coral and fish in one layer. In a layer just above, you find the fossil imprint of a fern frond and some fossil moss. Assuming the rock has not been disturbed, which of the following is the most probable conclusion?
  - The area had been a sea until recent times.
  - A forest had once grown there but had become submerged by water.
  - A sea had been replaced by land in ancient times.
  - A saltwater sea had changed to a freshwater lake in ancient times.
- A clear fish imprint in a rock indicates that the rock is probably \_\_\_\_\_.
  - volcanic
  - sedimentary
  - metamorphic
  - igneous
- Natural selection can best be defined as the \_\_\_\_\_.
  - survival of the biggest and strongest organisms in a population
  - elimination of the smallest organisms by the biggest organisms
  - survival and reproduction of the organisms that occupy the largest area
  - survival and reproduction of the organisms that are genetically best adapted to the environment



**Figure 14-4**

10. According to Figure 14-4, what was the earliest form of multicellular life on Earth?
  - a. fish
  - b. jellyfish
  - c. land plants
  - d. reptiles
11. According to Figure 14-4, the correct chronological order of organisms as they develop are \_\_\_\_\_.
  - a. birds, dinosaurs, jawed fish, bacteria
  - b. dinosaurs, jawed fish, birds, bacteria
  - c. jawed fish, dinosaurs, bacteria, birds
  - d. bacteria, jawed fish, dinosaurs, birds
12. According to Figure 14-4, in how many eras have mammals existed?
  - a. 2
  - b. 4
  - c. 5
  - d. 7
13. Whether or not a particular trait is advantageous to an organism is determined by
  - a. the genotype for that trait.
  - b. the environment in which the organism lives.
  - c. the number of individuals possessing an allele for the trait.
  - d. whether the allele for the trait is dominant or recessive.
14. Why might the beak of the Akialoa, pictured in Figure 15-7, developed this way?



**Figure 15-7**

- a. to reach nectar in flowers
- b. to dig through tree bark for insects
- c. to scoop up fish
- d. to crack open seeds