

TEST YOUR EVOLUTIONARY KNOWLEDGE

-- REVISION 9.0 ANSWERS --

Can you answer the game card questions using only the tree of life?!
Check your answers below.



Sirenian and Cetacea



They are most closely related to clams.



They are part of ANGIOSPERMS, which have enclosed seeds.



Yes - their branch is within TETRAPODA. Although they do not have four legs, their ancestor did.



Birds, bats, and winged insects all have different types of wings.



Yes - they are on the ENDOPTERYGOTA branch.



No - they are on a different branch than INSECTA.



No - although their ancestor engulfed a red alga and gained photosynthesis.



The beginning of the Ordovician period.



No - they are on a branch that evolved 360 million years ago, before seed plants.



Primates - their last common ancestor with armadillos is earlier on the tree.



Their common ancestor with spiders is more recent than that with crabs.



Yes, sponges are on the META-ZOA branch.



Crocodiles - both are on the ARCHOSAURIA branch.



Maybe a few ! Grass did not evolve until right before the mass extinction that killed non-avian dinosaurs. They had lived for 165 million years before grass appeared.



Hyraxes



No - jaws evolved on a different branch. Lampreys evolved about 450 million years ago.



The sea urchin evolved about 450 million years ago, over 138 million years before reptiles !



No, some insects are on branches that evolved before wings, which was about 400 million years ago.



Waterproof spores helped plants adapt to land.



Coelacanths and Lungfish



Frogs and toads are most closely related to Urodela, sharing an ancestor about 260 million years ago.



Hippos !



About 410 million years ago, when ray-fins and lobe-fins split.



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