

Evidence for Evolution

How are DNA and comparative anatomy used to show relatedness?

Why?

“You look just like your mother!” “He has his father’s eyes.” These comments that refer to the similarities between parents and their children are heard often in conversation. These similar traits are due to the genetic material that children inherit from their parents. As humans we are sometimes fortunate enough to have three or four generations sitting in a room at one time, and we can see the similarities from generation to generation. But how much do you look like your ancestors from 100 generations ago, 1000 generations ago or more? How much of your DNA did you inherit from those ancestors? What traits do you share with them?

Model 1 – Family Characteristics



1. Model 1 is a family tree. Circle the original parents of the family.
2. How would you describe the organisms in the second row of Model 1 that are connected to the parents by a line?
3. Identify the three members of the family that “married in” by placing a star next to their figures in Model 1.
4. How are the organisms in the third line related to the organisms in the first line?

Evidence For Evolution Pogil Extension Questions

Francisco Ayala



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Evidence and Evolution Elliott Sober, 2008 **Why Evolution is True** Jerry A. Coyne, 2010-01-14 For all the discussion in the media about creationism and Intelligent Design virtually nothing has been said about the evidence in question the evidence for evolution by natural selection Yet as this succinct and important book shows that evidence is vast varied and magnificent and drawn from many disparate fields of science The very latest research is uncovering a stream of evidence revealing evolution in action from the actual observation of a species splitting into two to new fossil discoveries to the deciphering of the evidence stored in our genome Why Evolution is True weaves together the many threads of modern work in genetics palaeontology geology molecular biology anatomy and development to demonstrate the indelible stamp of the processes first proposed by Darwin It is a crisp lucid and accessible statement that will leave no one with an open mind in any doubt about the truth of evolution **Teaching About Evolution and the Nature of Science** Working Group on Teaching Evolution, Board on Science Education, Division of Behavioral and Social Sciences and Education, National Academy of Sciences, 1998-04-20 Today many school students are shielded from one of the most important concepts in modern science evolution In engaging and conversational style Teaching About Evolution and the Nature of Science provides a well structured framework for understanding and teaching evolution Written for teachers parents and community officials as well as scientists and educators this book describes how evolution reveals both the great diversity and similarity among the Earth's organisms it explores how scientists approach the question of evolution and it illustrates the nature of science as a way of knowing about the natural world In addition the book provides answers to frequently asked questions to help readers understand many of the issues and misconceptions about evolution The book includes sample activities for teaching about evolution and the nature of science For example the book includes activities that investigate fossil footprints and population growth that teachers of science can use to introduce principles of evolution Background information materials and step by step presentations are provided for each activity In addition this volume Presents the evidence for evolution including how evolution can be observed today Explains the nature of science through a variety of examples Describes how science differs from other human endeavors and why evolution is one of the best avenues for helping students understand this distinction Answers frequently asked questions about evolution Teaching About Evolution and the Nature of Science builds on the 1996 National Science Education Standards released by the National Research Council and offers detailed guidance on how to evaluate and choose instructional materials that support the standards Comprehensive and practical this book brings one of today's educational challenges into focus in a balanced and reasoned discussion It will be of special interest to teachers of science school administrators and interested members of the community *The Big Questions: Evolution* Francisco Ayala, 2012-06-07 In *The Big Questions Evolution* one of the world's leading experts Francisco Ayala examines key facets of genetics evolution and cloning He uses the most up to date research to answer the 20 key questions of evolution and

investigate what they tell us about life on Earth What is evolution What is natural selection Is evolution a random process What are chromosomes genes and DNA What is molecular evolution What is the tree of life What does the fossil record tell us Is intelligence inherited Can I clone myself Is language a uniquely human attribute Was Darwin right What is survival of the fittest What is a species How do genes build bodies How did life begin Am I really a monkey What is the missing link Will humans continue to evolve Where does morality come from Is Creationism true

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