

### Basic Tree Thinking Assessment

David A. Baum, Stacey DeWitt Smith, Samuel S. Donovan

This quiz includes a number of multiple-choice questions you can use to test yourself on your ability to accurately interpret evolutionary trees. Insofar as real biological examples have been used they are accurate based on current knowledge.

'b' is correct. The most recent common ancestor of a green alga and a moss is at node x whereas the most recent common ancestor of a red alga and a moss is at the "deeper" node, y. If you picked 'c' you might be reading along the tips.



1) By reference to the tree above, which of the following is an accurate statement of relationships?

- a) A green alga is more closely related to a red alga than to a moss
- b) A green alga is more closely related to a moss than to a red alga
- c) A green alga is equally related to a red alga and a moss
- d) A green alga is related to a red alga, but is not related to a moss

'b' is correct. The most recent common ancestor of a crocodile and a bird is at node x whereas the most recent common ancestor of a crocodile and a lizard is at the "deeper" node, y. If you picked 'a' you might be reading along the tips.



2) By reference to the tree above, which of the following is an accurate statement of relationships?

- a) A crocodile is more closely related to a lizard than to a bird
- b) A crocodile is more closely related to a bird than to a lizard
- c) A crocodile is equally related to a lizard and a bird
- d) A crocodile is related to a lizard, but is not related to a bird

# Tree Thinking Answers

**S Ben Porath**



## **Tree Thinking Answers:**

**Assembling the Tree of Life** Joel Cracraft, Michael J. Donoghue, 2004-07-22 This edited volume provides an authoritative synthesis of knowledge about the history of life. All the major groups of organisms are treated by the leading workers in their fields. With sections on The Importance of Knowing the Tree of Life, The Origin and Radiation of Life on Earth, The Relationships of Green Plants, The Relationships of Fungi, and The Relationships of Animals, this book should prove indispensable for evolutionary biologists, taxonomists, ecologists interested in biodiversity, and as a baseline sourcebook for organismic biologists, botanists, and microbiologists. An essential reference in this fundamental area. [Cambridge Global English Stage 2 Teacher's Resource](#) Annie Altamirano, Caroline Linse, Elly Schottman, 2014-05-22 Cambridge Global English is a nine-stage language-rich course for learners of English as a Second Language following the Cambridge International Examinations curriculum framework. Teacher's Resource 2 provides step-by-step guidance notes for teachers for each lesson in every unit to support teaching the content of Learner's Book 2. Notes on Activity Book 2 are also included. A unit overview provides a snapshot of lesson objectives and the language and skills covered. The notes include answer keys to activities in the Learner's Book and Activity Book, complete audio scripts, suggestions for differentiation and assessment, cross-curricular links, portfolio opportunities, and additional unit-linked photocopiable activities and unit-based wordlists. **The Catholic's Ready Answer** Michael Peter Hill, 1915 **Where Were You Before the Tree of Life? Volume 1** Peter R. Farley, 2011-04-04 Volume 1 of 9. These books are the first to fully map out the history of alien interaction with the Earth, past, present, and into the near future. Extending the work of noted researchers such as Erich von Däniken and Zecharia Sitchin, the book series' goal is to show its readers the extensive repercussions this interaction has had on life on this planet, especially its formative role in the global conspiracy known as the New World Order. [The Learning Tree](#) Stanley I. Greenspan, Nancy Thorndike Greenspan, 2010-08-03 The Learning Tree offers a new understanding of learning problems. Rather than looking just at symptoms, this new approach describes how to find the missing developmental steps that cause these symptoms. The best solution to the problem comes from knowing what essential skills to strengthen. Using the metaphor of a tree, Dr. Stanley Greenspan explains that the roots represent how children take in the world through what they hear, see, smell, and touch. The trunk represents thinking skills through which children grow both academically and socially. From these, the branches—children's basic abilities to read, write, do math, and organize their work—develop. Both parents and early learning professionals will especially welcome the sections on finding and solving learning problems early. With Dr. Greenspan's characteristic wise optimism, this book raises the ceiling for all children who learn differently or with difficulty. [Organismic Animal Biology](#) Ariel D. Chipman, 2024 This accessible textbook provides a basic understanding of the general evolutionary principles of organismic animal biology and animal diversity. It integrates parallel themes of body organization and phylogeny to provide an evolutionary journey through the diversity of animal life. *Tree Thinking: An Introduction to*

*Phylogenetic Biology* David A. Baum, Stacey D. Smith, 2012-08-10 Baum and Smith both professors evolutionary biology and researchers in the field of systematics present this highly accessible introduction to phylogenetics and its importance in modern biology Ever since Darwin the evolutionary histories of organisms have been portrayed in the form of branching trees or phylogenies However the broad significance of the phylogenetic trees has come to be appreciated only quite recently Phylogenetics has myriad applications in biology from discovering the features present in ancestral organisms to finding the sources of invasive species and infectious diseases to identifying our closest living and extinct hominid relatives Taking a conceptual approach *Tree Thinking* introduces readers to the interpretation of phylogenetic trees how these trees can be reconstructed and how they can be used to answer biological questions Examples and vivid metaphors are incorporated throughout and each chapter concludes with a set of problems valuable for both students and teachers *Tree Thinking* is must have textbook for any student seeking a solid foundation in this fundamental area of evolutionary biology

**A Single Shard - Literature Kit Gr. 5-6** Marie-Helen Goyette, 2009-10-01 Gain a sense of responsibility and knowing what it s like to have someone s fate in their hands Our resource is great for quizzes vocabulary and writing prompts Predict what will happen between Tree ear and Min and whether Tree ear will become a potter Match characters to their actions in the story Use words in a sentence to show its meaning Describe how Tree ear prepares the clay for Min and how different the process would be today Write the step by step instructions on Kang s new technique for making pottery Compare Min and Kang s work in a Venn Diagram Design a poster advertising Min s pottery Find the cities from the novel on a setting map of Korea Aligned to your State Standards additional crossword word search comprehension quiz and answer key are also included About the Novel Set in 12th Century Korea Tree ear an orphaned little boy lives under a bridge with a disabled older friend and caretaker named Crane man Tree ear is fascinated with a local potter named Min and dreams of creating his own ceramics The trade of potter is unfortunately passed down from father to son therefore Min can t teach Tree ear the trade The Royal Emissary tours the village in search for a new potter for the palace Min and Kang another pottery maker compete for the honor The emissary chooses Kang but tells Min that if he can create more work and bring it to Puyo he will reconsider his choice Now Min s fate rests in the hands of Tree ear who must deliver the pottery to the palace

*Under the Greenwood Tree* Thomas Hardy, 1924 *Works: Under the greenwood tree* Thomas Hardy, 1905 *The Musician*, 1903 *Under the greenwood tree*. Fine-paper ed Thomas Hardy, 1902 *Under the greenwood tree; or the Mellstock quire* Thomas Hardy, 1920

**The Wessex Novels: Under the greenwood tree** Thomas Hardy, 1896 **Earth's Answer** Michael Katz, William P. Marsh, Gail Gordon Thompson, 1977 *Under The Mango Tree* Tanya Copprue, 2009-04 *Under The Mango Tree* A Spiritual Way of Living Merry is a ground breaking new book which begins by having the reader be introduced to the Self Readers will discover and learn how to tell the difference between the Ego Self and the True Spirit Self *Under The Mango Tree* teaches from a holistic perspective which means it shows readers the connection between the mind body and

spirit as well as the emotional aspect Readers will discover how to align these aspects in order to bring harmony peace and merry living Discover the importance of balancing the Masculine and Feminine energy within in order to improve relationships and gain better communication Readers are invited to interact and take steps towards their own healing and wellness through the highly effective activities exercises in the book The Book also discusses Universal Spiritual Laws and Principles in an easy to understand way In other words the book provides practical applications of Living the Laws by being good to your self first and living a merry life Readers will also discover interesting lessons about Prosperity and Abundance The importance of Gratitude Attitude and the Mystery of the Faith Walk For true spiritual awareness this is the One Stop Book **Home Garden and Flower Grower** ,1925 **The Bazaar, Exchange and Mart, and Journal of the Household** ,1871 *Popular Educator* ,1923 New Dominion Monthly ,1875

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