



Land of the apes: You probably don't have any issue distinguishing a human from a chimpanzee, gorilla, or orangutan. But you might if you were looking at DNA instead of physical traits. The differences you see are caused by a shockingly tiny proportion of our DNA—who knew that just a few Gs, As, Ts, and Cs could do so much? Answer questions 3–5 below before you move on to the next level, “Back to skull.”

position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Chimpanzee	-	-	G	-	-	-	-	T	-	T	-	-	G	-	-	-	G	-	-	-
Gorilla	-	-	T	-	-	-	-	T	-	T	-	-	T	-	-	-	G	-	-	-
Human	-	-	G	-	-	-	-	A	-	T	-	-	G	-	-	-	G	-	-	-
Orangutan	-	-	G	-	-	-	-	T	-	T	-	-	T	-	-	-	T	-	-	-

- This data set shows all of the nucleotide differences in a 500-base sequence. Approximately what percentage of DNA do humans have in common with a chimpanzee?
 - $1/500 = 0.2\%$
 - $5/500 = 1\%$
 - $495/500 = 99\%$
 - $499/500 = 99.8\%$
- The closest living relatives to orangutans are:
 - Chimpanzees
 - Gorillas
 - Humans
 - Chimpanzees, gorillas, and humans equally
- True or false: “Gorillas are more closely related to chimpanzees and orangutans than they are to humans.” Explain your answer.



Evolution Simulation Lab Answer Key

G Orfield



Evolution Simulation Lab Answer Key:

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Boundaries of Rock Mechanics Meifeng Cai,Jin'an Wang,2008-04-01 Boundaries of Rock Mechanics Recent Advances and Challenges for the 21st Century contains 180 papers from the International Young Scholars Symposium on Rock Mechanics 2008 Beijing China 28 April 2 May 2008 The symposium was organized by the ISRM Commission on Education and sponsored by the International Society for Rock Mechanics ISRM and **Government Reports**

Announcements & Index ,1992-04 Fusion Energy Update ,1986 **Resources in Education** ,1973-05 Energy Research Abstracts ,1983 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes Large Space Structures & Systems in the Space Station Era ,1991 **Research in Education** ,1973 **NBS Special Publication** ,1968

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