



Name:

Date:

Student Exploration: Human Evolution - Skull Analysis

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: bipedal, canine, cranial capacity, cranium, evolve, foramen magnum, hominid, hominin, index, maxilla, orbit, palate, skull

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. Label one of the **skulls** below as human and the other as a chimpanzee skull.



Human



Chimpanzee

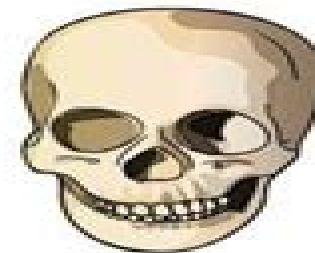
2. What features did you use to identify which skull was human and which was chimpanzee?

The chimpanzee's skull is shaped differently and the jaw comes out more.

Gizmo Warm-up

In 1924, a fossilized skull that looked very similar to a chimp skull was discovered. But the skull most definitely did not belong to a chimp. The location of the **foramen magnum**—a hole in the skull where the spinal cord exits—indicated that the individual was **bipedal**, or walked on two legs. This fossil was some of the earliest evidence of human evolution.

Using the *Human Evolution – Skull Analysis* Gizmo, you will discover some of the ways that skulls can be used to learn about human evolution. Start by comparing two modern **hominids**: a human and a chimpanzee.



1. Examine the **Front view** of the *Homo sapiens* (modern human) skull. Then, use the **Select skull** menu to examine the same view of the *Pan troglodytes* (chimp) skull.

How do the skulls compare?

The human skull has a smaller jaw, smaller teeth, and larger forehead than the chimp. The chimp skull has a larger brow ridge and nose.

2. Now, examine the **Bottom view** of the two skulls. How do they compare?

The mouth of the chimp skulls is bigger. The foramen magnum on the human skull is closer to the front of the skull.

Human Evolution Student Exploration Answer Key

Yicheng Fang



Human Evolution Student Exploration Answer Key:

Basics in Human Evolution Michael P Muehlenbein, 2015-07-24 Basics in Human Evolution offers a broad view of evolutionary biology and medicine The book is written for a non expert audience providing accessible and convenient content that will appeal to numerous readers across the interdisciplinary field From evolutionary theory to cultural evolution this book fills gaps in the readers knowledge from various backgrounds and introduces them to thought leaders in human evolution research Offers comprehensive coverage of the wide ranging field of human evolution Written for a non expert audience providing accessible and convenient content that will appeal to numerous readers across the interdisciplinary field Provides expertise from leading minds in the field Allows the reader the ability to gain exposure to various topics in one publication

The Emergence of Humans Patricia J. Ash, David J. Robinson, 2011-09-20 The Emergence of Humans is an accessible informative introduction to the scientific study of human evolution It takes the reader through time following the emergence of the modern human species Homo sapiens from primate roots Acknowledging the controversy surrounding the interpretation of the fossil record the authors present a balanced approach in an effort to do justice to different views Each chapter covers a significant time period of evolutionary history and includes relevant techniques from other disciplines that have applications to the field of human evolution Self assessment questions linked to learning outcomes are provided for each chapter together with further reading and reference to key sources in the primary literature The book will thus be effective both as a conventional textbook and for independent study Written by two authors with a wealth of teaching experience The Emergence of Humans will prove invaluable to students in the biological and natural sciences needing a clear balanced introduction to the study of human evolution

Genes and Surroundings, Teacher Guide Biological Sciences Curriculum Study, 2000

Human Evolution and Prehistory William A. Haviland, Gary W. Crawford, Shirley Fedorak, 2004-12 Human Evolution and Pre History first Canadian edition is brief text that offers a straightforward balanced presentation on views of human evolution adaptation and prehistory It focuses on selected aspects of physical anthropology and prehistoric archaeology as they relate to the origin of humanity the origin of culture and the development of human biological and cultural diversity

Engaging Life's Deepest Questions: Teacher's Guide Dr. Octavian Caius Obeada, 2025-06-26 Teacher's Guide Overview The Teacher's Guide for Engaging Life's Deepest Questions is a thoughtfully designed companion manual aimed at equipping educators to teach apologetics with clarity compassion and spiritual depth Its purpose is to empower instructors not only to deliver theological and philosophical content but to form students in discernment empathy and Christian conviction This guide provides Clear instructional support through chapter objectives key concepts and thematic outlines Engaging classroom tools including thought provoking discussion questions creative exercises formative and summative assessments Practical teaching strategies for navigating sensitive cultural issues with pastoral wisdom and theological integrity

Complete Advanced Student's Book with Answers with CD-ROM Guy

Brook-Hart, Simon Haines, 2014-03-11 Complete Advanced provides thorough preparation for the revised 2015 Cambridge English Advanced CAE exam The Student s Book with answers fully prepares students to tackle each part of every exam paper Unique grammar and vocabulary exercises train students to avoid common mistakes Exam information and advice boxes explain the requirements of the exam Vocabulary and Grammar reviews every two units track progress Speaking and Writing references focus on key skills required for the exam The CD ROM supports mixed ability classes focusing on students own particular areas of difficulty Class Audio CDs available separately contain the recordings for the listening exercises A full practice test is available online for teachers to access

Science Strategies to Increase Student Learning and Motivation in Biology and Life Science Grades 7 Through 12 David Butler, 2022-02-17 On the first day of school have you ever thought of your classrooms as newly opened boxes of crayons I do Like pencil sticks of colored wax the students each have different names individual characteristics and various levels of brightness I set a goal each year to promote not only creativity but to draw out of my students reasons about why science is so important As science educators we not only need to illustrate the importance of knowing facts and terminology but also be able to frame those concepts in such a way that students are motivated to want to study and understand biology When I began teaching I never thought that I would have the multitude of experiences I have now I have taught in schools ranging from city to rural public to private and large to small not to mention classes ranging from general science to advanced biology Through these diverse experiences I have developed a number of strategies that have enhanced student achievement and science appreciation In this book I will share with you these experiences and techniques showing you how to enhance teaching skills increase student drive create mental connections better manage your class time use proper technology practice forms of differentiation and incorporate the NGSS In addition this text allows me to share my most treasured philosophies experiences and teaching strategies and how they can be applied to biology life science classrooms

Renaissance Thinking in the Classroom Nathan D. Lang-Raad, 2024-11-12 Former STEM educator Nathan D Lang Raad has witnessed the power of interdisciplinary teaching in K 12 schools In this book he details nine specific habits of thinking and a challenge based framework that educators should systematically integrate to promote students academic knowledge and lifelong learning Lang Raad s approach consolidates supportive research and gives clear guidance through original strategies to help teachers design lessons that foster necessary behaviors This book will help K 12 teachers instructional coaches and curriculum designers Understand why the nine habits of thinking must be embedded and applied across all grade levels Use a detailed challenge based framework template to design and perform interdisciplinary lessons See how historical polymaths practices can apply to and enhance 21st century learning Complete chapter activities to ensure the habits are appropriately incorporated for all developmental stages and grade bands Study research supported examples of the habits and the framework s successful application Contents Introduction Part I Chapter 1 Foster the Nine Habits of Thinking in K 12 Learning Chapter 2 Habit 1 Cultivate Diverse Curiosity Chapter 3 Habit 2 Take

Risks Chapter 4 Habit 3 Use Humor Chapter 5 Habit 4 Develop Creativity and an Innovative Outlook Chapter 6 Habit 5 Build Self Regulation Chapter 7 Habit 6 Transfer Learning Chapter 8 Habit 7 Ask Questions to Engage in Genuine Inquiry Chapter 9 Habit 8 Evaluate Evidence Chapter 10 Habit 9 Embrace Lifelong Learning and Perseverance Part II Chapter 11 Integrate the Challenge Based Framework and the Habits of Thinking Chapter 12 Integrate Academic Standards Chapter 13 Integrate 21st Century Skills Chapter 14 Engage Teacher Collaboration Chapter 15 Engage Student Collaboration Epilogue

Renaissance Reimagined References and Resources Index The Evolution of Techniques Mathieu

Charbonneau, 2024-03-26 A novel interdisciplinary exploration of the relative contributions of rigidity and flexibility in the adoption maintenance and evolution of technical traditions Techniques can either be used in rigid stereotypical ways or in flexibly adaptive ways or in some combination of the two The Evolution of Techniques edited by Mathieu Charbonneau addresses the impacts of both flexibility and rigidity on how techniques are used transformed and reconstructed at varying social and temporal scales The multidisciplinary contributors demonstrate the important role of the varied learning contexts and social configurations involved in the transmission use and evolution of techniques They explore the diversity of cognitive behavioral sociocultural and ecological mechanisms that promote and constrain technical flexibility and rigidity proposing a deeper picture of the enablers of and obstacles to technical transmission and change In line with the extended evolutionary synthesis the book proposes a more inclusive and materially grounded conception of technical evolution in terms of promiscuous dynamic and multidirectional causal processes Offering new evidence and novel theoretical perspectives the contributors deploy a diversity of methods including ethnographies field and laboratory experiments cladistics and phylogenetic tree building historiography and philosophical analysis Examples of the wide range of topics covered include field experiments with potters from five cultures stability and change in Paleolithic toolmaking why children lack flexibility when making tools and cultural techniques in nonhuman animals The volume s three thematic sections are Timescales of technical rigidity and flexibility Rigid copying to flexible reconstruction Exogenous factors of technical rigidity and flexibility The volume closes with a discussion by philosopher Kim Sterelny Contributors Rita Astuti Adam Howell Boyette Blandine Bril Josep Call Mathieu Charbonneau Arianna Curioni Nicola Cutting Bert De Munck Gy rgy Gergely Anne Lise Goujon Ildik Kir ly Catherine Lara S bastien Manem Luke McEllin Helena Miton Giulio Ongaro Sarah Pope Caldwell Valentine Roux Manon Schweinfurth Dan Sperber Kim Sterelny Dietrich Stout James W A Strachan Sadie Tenpas **Environmental Science**

Daniel D. Chiras, 2013 Completely updated the ninth edition of Environmental Science enlightens students on the fundamental causes of the current environmental crisis and offers ideas on how we as a global community can create a sustainable future

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