

**L. Objectives:** How can fossils be used to write the history of an area?

**CA Standard:** (2a) Students know how to analyze fossil evidence with regard to biological diversity, geographic operations, and time extinction.

**B. Materials:** pencil, data book, lab manual

### III. Procedures:

#### Part A

1. Observe the diagram of the fossil horizons in Figure 1 in the Data section below.

2. Use Figure 1 to answer Questions 1-4b.

#### Part B

3. Observe the diagram of the fossil horizons in Figure 2 in the Data section below.

4. Use Figure 2 to answer Questions 5-7b.

### IV. Data/Observation

Figure 1

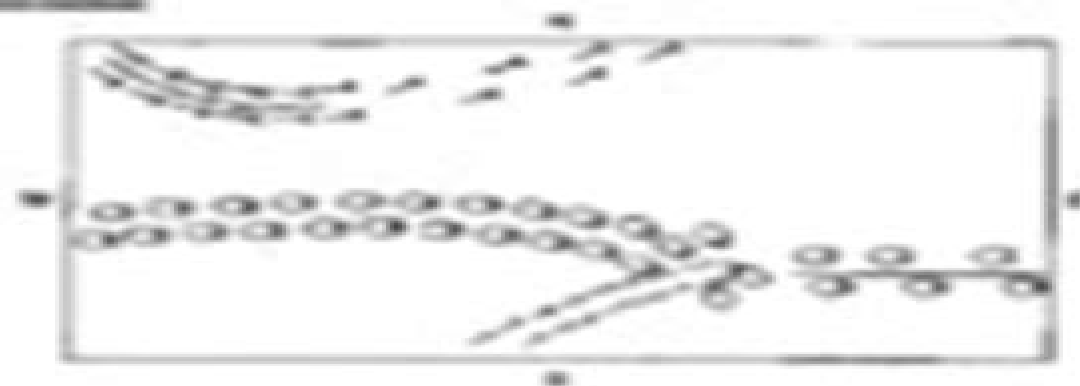
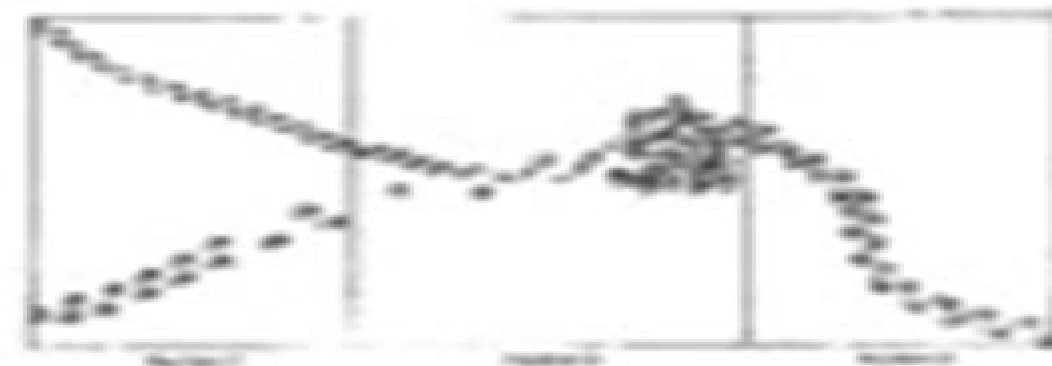


Figure 2



# Lab Interpreting Fossil Evidence Worksheet

**S Baum**



## **Lab Interpreting Fossil Evidence Worksheet:**

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

**Field and Laboratory Methods Used by the Geological Survey of Canada in Geochemical Surveys** A. A. Petryk, Donald F. Stott, E. W. Bamber, Hulbert Austin Lee, J. Terasmae, N. C. Ollerenshaw, Sydney Abbey, Willy Dyck, D. E. Lawrence, M. S. Barss, 1968

**The Interpretation of Earth History** Arthur Bevan, 1924

Laboratory Manual in Physical Geology American Geological Institute, 1997 This Laboratory Manual in Physical Geology is a richly illustrated user friendly laboratory manual for teaching introductory geology and geoscience

**Inquiring Scientists, Inquiring Readers in Middle School** Terry Shiverdecker, Jessica Fries-Gaither, 2016-11-30 Great news for multitasking middle school teachers Science educators Terry Shiverdecker and Jessica Fries Gaither can help you blend inquiry based science and literacy instruction to support student learning and maximize your time Several unique features make Inquiring Scientists Inquiring Readers in Middle School a valuable resource Lessons integrate all aspects of literacy reading writing speaking listening and viewing The texts are relevant nonfiction including trade books newspaper and magazine articles online material infographics and even videos A learning

cycle framework helps students deepen their understanding with data collection and analysis before reading about a concept. Ten investigations support current standards and encompass life, physical, and Earth and space sciences. Units range from Chemistry Toys and Accidental Inventions to Thermal Energy and Kryptonite. The authors have made sure the book is teacher friendly. Each unit comes with scientific background, a list of common misconceptions, an annotated text, safety considerations, differentiation strategies, reproducible student pages, and assessments. This middle school resource is a follow up to the authors' award-winning *Inquiring Scientists* and *Inquiring Readers* for grades 3-5, which one reviewer called very thorough and any science teacher's dream to read. The book will change the way you think about engaging your students in science and literacy.

[The Coleopterists' Bulletin](#), 2000      *Geological Survey Professional Paper*, Geological Survey (U.S.), 1960      **The Zoological Record**, 1998      *Geological Survey Professional Paper*, 1963      **U.S. Geological Survey Professional Paper**, 1960      *Publications Abstracts*, Environmental Research Laboratories (U.S.), 1994      **Courses and Degrees**, Stanford University, 1990      *Biology*, John Moore, 2004-08 Teacher Manual for Biology A Search for Order in Complexity      **Congressional Record**, United States Congress, 1956      **Midyear Report**, University of Texas at Austin. Bureau of Economic Geology, 2002      *Survey of Science Specialties Parent Lesson Plan*, 2013-08-01

**Survey of Science Specialties Course Description** This is the suggested course sequence that allows two core areas of science to be studied per semester. You can change the sequence of the semesters per the needs or interests of your student materials within each semester are independent of one another to allow flexibility.

**Quarter 1: Archaeology** The Archaeology Book takes you on an exciting exploration of history and ancient cultures. You will learn both the techniques of the archaeologist and the accounts of some of the richest discoveries of the Middle East that demonstrate the accuracy and historicity of the Bible. You will unearth how archaeologists know what life was like in the past, why broken pottery can tell more than gold or treasure can, some of the difficulties in dating ancient artifacts, how the brilliance of ancient cultures demonstrates God's creation history of ancient cultures including the Hittites, Babylonians, and Egyptians, the early development of the alphabet and its impact on discovery, the numerous archaeological finds that confirm biblical history.

**Quarter 2: Geology** The Geology Book will teach what really carved the Grand Canyon, how thick the Earth's crust is, why the Earth is unique for life, the varied features of the Earth's surface from plains to peaks, how sedimentary deposition occurs through water, wind, and ice, effects of erosion, ways in which sediments become sedimentary rock, fossilization, and the age of the dinosaurs, the powerful effects of volcanic activity, continental drift theory, radioisotope and carbon dating, geologic processes of the past. Our planet is a most suitable home. Its practical benefits are also enhanced by the sheer beauty of rolling hills, solitary plains, churning seas, and rivers and majestic mountains all set in place by processes that are relevant to today's entire population of this spinning rock we call home.

**Quarter 3: Cave Explore** Deep into the hidden wonders beneath the surface as cave expert Dr. Emil Silvestru takes you on an illuminating and educational journey through the mysterious world of caves. Discover the beautiful thriving ecology

unique animals and fragile balance of this little seen ecosystem in caves from around the globe The Cave Book will teach you about a creationary model for how caves form a history of how caves have been used by humans for shelter and worship how old caves really are the surprising world of Neanderthals and their connection to modern humans how to make a stone axe and about early tools just how long it really takes for cave formations to form unusual animals that make caves their home examples of how connected caves are to mythology of many cultures the climate and geologic processes and features of caves and karst rocks the process by which ice caves form exploration hazards and record setting caves how caves form and features above and below the surface Quarter 4 Fossil Fossils have fascinated humans for centuries But where did they come from and how long have they been around These and many other questions are answered in this remarkable book The Fossil Book will teach you about the origin of fossils how to start your own fossil collection what kinds of fossils can be commonly found the age of fossils how scientists find and preserve fossils how to identify kinds of fossils how the Flood affected fossil formation the Geologic Column Diagram the difference between evolutionists and creationists views on fossils the four Cs of biblical creation the different kinds of rocks fossils are found in coal and oil formation Learning about fossils their origins and how to collect them can be both fun and educational **Holt Science and Technology** Holt Rinehart & Winston,2004-02

**A Laboratory Manual for Earth Science Survey** Victor L. Crowell,Alan Lutz,1956 **Journal of Geoscience Education** ,2006 Geologic Evolution of the Mojave Desert and Southwestern Basin and Range Allen F. Glazner,J. Douglas Walker,John M. Bartley,2002 CD ROM contains Electronic version of text Maps

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