

Name \_\_\_\_\_  
Date \_\_\_\_\_  
Partner: \_\_\_\_\_

PS/ES Lab Per \_\_\_\_\_  
Mr. Landsman

## LAB: Geologic Timeline

**Background:** The geologic time scale is depicted in the center section of your ESRT. It is difficult, however, to express the important events in Earth's history in a linear fashion on a page of that size. Consequently, the ESRT compress the Precambrian (~4 billion yrs) into an inch strip (bottom) and expand the Phanerozoic (~540 million years) to fill out the page. This provides room to note the important events in geologic time, but may confuse the student trying to understand the concept of linear geologic time. SO...you will create a time line TO SCALE on a paper that lends itself well to depicting L O N G time passage.

**Objective:** Students will attain a sense of geologic time from a linear representation.

**Procedure:**

1. Measure 10 cm from one end of the tape and draw a line across the tape. Write your names **in the 10 cm space**
2. Label the line (on your name side) "NOW". All measurements will be made from this line.
3. Measuring from the "NOW" line, mark off 1 meter intervals. At each interval, make a line across the tape and label the lines as increasing Billions of years. Ex: 1 billion, 2 billion etc
4. Measuring from the NOW line, plot the events listed in the table on the next page. Plot lines on the tape. Label each line with the age and event from the table.

**BIG QUESTION:** How much time is represented by cm, mm, m ????

**Conclusions:**

1. Please share your personal experience as you became more enlightened in understanding geologic time. What surprised you? What turned out the way you expected? Does this scale conflict your previous understanding of Earth's history? Explain. Does the time line (based on scientific evidence and theory) conflict with any personal beliefs regarding Earth's history? Explain

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# Geologic Timeline Lab Answers

**Brian Grant**



## **Geologic Timeline Lab Answers:**

**Geology From Experience** E. Kirsten Peters, Larry E. Davis, 2000-11-05 Moving away from the observation and vocabulary focus of traditional physical geology lab manuals Peters and Davis's *Geology from Experience* offers experiments that favor hands-on involvement and scientific problem solving. Students are asked to use geological tools and techniques, analyze data from observation, experiment, and research, solve simple equations, and make assessments and relevant predictions. This approach, class-tested with great success by the authors, gives students a real taste of the scientific experience by revealing the ways geologists actually do their work. *Lab Exercise on Analysis of Tectonostratigraphic Terranes* Ann Bykerk-Kauffman, 1987 *Teaching Science Fact with Science Fiction* Richard Raham, 2004-08-17 The literature of science fiction packs up the facts and discoveries of science and runs off to futures filled with both wonders and warnings. Kids love to take the journeys it offers for the thrill of the ride, but they can learn as they travel too. This book will provide you with an overview of the past 500 years of scientific thought and the literature of science fiction which it inspired, suggestions for finding and adapting the kind of science fiction that will work best for your classroom, detailed ideas and resources for teaching concepts in the physical earth space and life sciences as well in history and mathematics, and suggested activities for a variety of grade levels. Appendices provide science references to help you keep the facts and the fictions straight, national science content standards, and detailed lesson plans for an earth science unit where students travel the depths of time and create their own time travelers' diaries. *The Essentials of Science, Grades 7-12* Rick Allen, 2007-11-15 Where is U.S. secondary level science education heading today? That's the question that *The Essentials of Science, Grades 7-12* sets out to answer. Over the last century, U.S. science classes have consistently relied on lectures, textbooks, rote memorization, and lab demonstrations. But with the onset of NCLB-mandated science testing and increased concern over the United States' diminishing global stature in science and technology, public pressure is mounting to educate students for a deeper conceptual understanding of science. Through lively examples of classroom practice, interviews with award-winning science teachers and science education experts, and a wide-ranging look at research, readers will learn how to make use of research within the cognitive sciences to foster critical thinking and deeper understanding. How to use backward design to bring greater coherence to the curriculum. Innovative, engaging ideas for implementing scientific inquiry in the classroom. Holistic strategies to address the complex problems of the achievement gap, equity, and resources in the science classroom. Strategies for dealing with both day-to-day and NCLB assessments. How professional learning communities and mentoring can help teachers reexamine and improve their practice. Today's secondary science teachers are faced with an often overwhelming array of challenges. *The Essentials of Science, Grades 7-12* can help educators negotiate these challenges while making their careers more productive and rewarding. **Geotechnical Investigation Methods** Roy E. Hunt, 2006-10-31 The investigation phase is the most important segment of any geotechnical study. Using the correct methods

and properly interpreting the results are critical to a successful investigation. Comprising chapters from the second edition of the revered Geotechnical Engineering Investigation Handbook, *Geotechnical Investigation Methods* offers clear conc

*Earth Lab* Claudia Owen, Diane Pirie, Grenville Draper, 2006 Utilizing graphs and simple calculations, this clearly written lab manual complements the study of earth science or physical geology. Engaging activities are designed to help students develop data gathering skills, e.g., mineral and rock identification and data analysis skills. Students will learn how to understand aerial and satellite images to perceive the importance of stratigraphic columns, geologic sections, and seismic waves, and more. Im Earth Lab Explore Earth Sci Claudia Owen, Diane Pirie, 2001-08 **EAS 220 Lab Book**, 2007

*Ancient Environments and the Interpretation of Geologic History* Lynn S. Fichter, David J. Poché, 2001 For laboratory courses in Historical Geology. This combination textbook and lab manual teaches students the knowledge and skills used by geologists to interpret the earth's ancient environments and reconstruct geologic history. It integrates and incorporates the theoretical models and analysis of empirical data that provides students with a holistic understanding of these challenging tasks. **Journal of Geoscience Education**, 2007 *Holt Science and Technology* Holt Rinehart & Winston, 2004-02

*Geoscience Reporting Guidelines* Brian Grant, 2003 **Physical Geology Lab Manual and Note Book** John Tomikel, 1966 *Problem Solving in Geology* Sheldon Judson, 2000-02 B Designed to give readers instruction and practice with basic geologic field and lab skills, this exceptionally affordable yet high quality lab manual/workbook features 68 unique and intuitive exercises covering 19 key geologic topics. The exercises are based on the principles of scientific inquiry and challenge readers to think beyond the activity at hand to the larger questions of applied geologic work. Problems range from the simple to complex, and calculations are based on simple arithmetic. **ROCK EVOLUTION** Minerals and Rocks **MAPPING THE EARTH** Topographic Maps Air Photos Geologic Maps Structures and Earth History Seismic Reflections Reveal Subsurface Geology **SURFICIAL PROCESSES AND THE ENVIRONMENT** Landslides Streams Ground Water Glaciation Beaches **PLATE TECTONICS** Earthquakes and Seismic Risk Volcanos and Volcanic Hazards Earthquakes Volcanos and Plate Tectonics Plate Movements **EARTH MATERIALS** Rock forming Minerals Igneous Rocks Sedimentary Rocks Metamorphic Rocks Common Rocks in the Field For anyone interested in learning geologic field and lab skills Earth Science, 2001

*Proceedings of the Pacific Congress on Marine Technology, PACON 86*, 1986 **Geology and Modern Problems** Burr A. Silver, 1977 A Report on the Development, Implementation, and Evaluation of the Environmental Biology Laboratory Program in General Biology 101-102 at Cornell University Roger Allen Smith, 1973 **Glencoe Sci Earth Science Chapter 14 Geologic Time Chp Res 513 2002** McGraw-Hill Staff, 2001-08 The Proceedings of the ... International Conference on Fluidized-Bed Combustion, 1980

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