

EXERCISE 5

Name _____
Section _____

Constructing a Columnar Section from a Geologic Cross Section

Date _____

Figure 2.12 is a schematic geologic cross section based on the mapping of different outcrops from several localities in a geographic area covering about 10 square miles. Formations shown by the same color and symbols are the same age. Study the cross section and complete the work called for in questions 1 and 2.

1. Construct a columnar section from this cross section using the numbered lines at the right of figure 2.12 to record your interpretation. Indicate the name of a rock formation (e.g., shale, granite, alluvium) or an unconformity in its appropriate position in the section as determined from the

adjacent geologic cross section. Igneous rock masses of the same age should be listed on the same line. Remember that the oldest unit is listed at the bottom.

2. Reexamine figure 2.12. In this simplified geologic cross section, no evidence of metamorphic activity has been shown. Recall the earlier discussion of types of metamorphism, metamorphic grade, and the classification of metamorphic rocks. Had metamorphic rocks been included, indicate what types you would expect to find, and why (see pages 45–46).



- 10 Alluvium
 - 9 Unconformity
 - 8 Basalt
 - 7 Arkose
 - 6 Conglomerate
 - 5 unconformity
 - 4 Granite
 - 3 Sandstone
 - 2 shale
 - 1 Limestone
- Columnar Section

Figure 2.12

Geologic cross section and uncompleted columnar section. The names of the rock units and any unconformities are to be listed in the appropriate boxes of the columnar section as called for in Exercise 5.

Physical Geology Lab Manual Homework 2

Chao Zhang



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Study Guide for Physical Geology, Geo 1001 (T451-W485) Robert Evan Sloan, E. C. Alexander (Jr.), 1985 **Applications of Physical Geology Principles: a Laboratory Manual** Victor Viosca Cavaroc, P. D. Fullagar, J. J. Gryta, 1977 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 **California Geology** California. Division of Mines and Geology, 1987 **El-Hi Textbooks & Serials in Print, 2000** ,2000 El-Hi Textbooks & Serials in Print, 2005 ,2005 **Basic Technical Writing** Herman M. Weisman, 1992 Using easy to follow explanations and a wealth of writing samples taken from real life this classic introduction to basic technical writing covers the formal technical report and shorter forms such as letters memos and abstracts and explains all expository techniques in detail e g definition description explaining a process analysis It explores every aspect of the technical writer's craft from the process that begins before pen touches paper e g topic research literature search and the scientific method to the writing revising and editing that results in a final product Major sections include modality and media technical English technical style and automated word processing technical writing fundamentals expository forms technical report writing research writing editing graphics short technical writing forms proposals oral reports technical papers and articles and grammar punctuation style usage reference **El-Hi Textbooks in Print** ,1979 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1955 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June A Comparison of a Traditional and an Independent Laboratory Approach in Introductory College Geology Karen Jeanne Goodman, 1975 **Journal of Geoscience Education** ,1997 Essentials of Meteorology C. Donald Ahrens, 1998 An introduction to topics related to everyday experiences with weather the atmosphere temperature clouds and precipitation wind storms air pollution and more Physical Geology Jeffrey R. Knott, Wayne Henderson, Kristin Weaver Bowman, Patricia Butcher, 2016-08-02 This book is intended for an introductory geology class for nonscience majors The seven chapters minerals rocks geologic history earthquakes and geologic hazard maps in this textbook provide the fundamentals of a 15 week introductory geology laboratory course The homework chapters on plate tectonics the rock cycle and topographic maps may be used as review or introduction to digitally delivered lab assignments on these topics Optimally this manual is used in conjunction with digitally delivered assignments and local field trips For the instructor this textbook provides the common topics that are covered in an introductory geology lab class This provides the introductory framework after which the instructor includes local elements

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