

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.

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Physical Geology 101 Laboratory Manual Anderson Ohan, Steven Okulewicz, Peter Rigotti, 2006-03 **Physical Geology Lab Manual**, 2015 **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 *Subject Guide to Books in Print*, 1991 [Geology 101: Dynamic Earth Lab: Physical Geology Lab Exercises](#) Pearson Prentice Hall, 2006-01-01 *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 into the curriculum Many of the labs have a clear answer sheet that makes turning in assignments easy as well as a short directed easily graded writing assignments Students benefit from not having to purchase a full 15 20 chapter manual from which only 10 15 chapters are used The pre lab reading is directed at the information required to complete the lab tasks which means that the manual is independent any additional general lecture class [Catalog of Copyright Entries. Third Series](#) Library of Congress. Copyright Office, 1959 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June **Books in Print Supplement**, 1985 **Geology 101 Laboratory Manual** Auburn University. Department of Geology, 1976* *CD-ROMs in Print*, 2002 *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 **Catalog of Copyright Entries** Library of Congress. Copyright Office, 1958 **El-Hi Textbooks in Print**, 1984 *Laboratory Manual for Physical Geology* James L. Carter, Robert H. Rutford, James H. Zumberge, 2013-10-17 Zumberge's Laboratory Manual for Physical Geology 16e is written for the freshman level laboratory course in physical geology In this lab students study Earth materials geologic interpretation of topographic maps aerial photographs and Earth satellite imagery structural geology and plate tectonics and related phenomena With over 30 exercises professors have great flexibility when developing the syllabus for their physical geology lab course The ease of use

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