

EXERCISE 5

Name _____
Section _____

Constructing a Columnar Section from a Geologic Cross Section

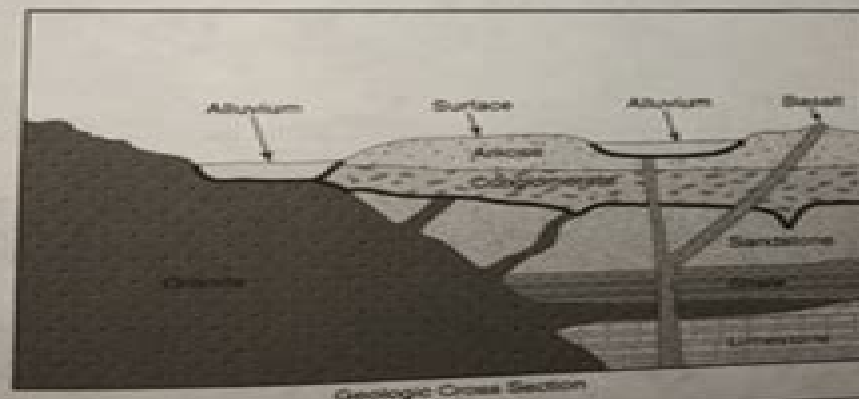
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Figure 2.12 is a schematic geologic cross section based on the mapping of different outcrops from several localities in a geographic area covering about 10 square miles. Formations shown by the same color and symbols are the same age. Study the cross 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 Laboratory Manual Answers

Julia Schneider



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Laboratory Manual for Physical Geology Walter Henry Schoewe, 1928 **Laboratory Manual in Physical Geology** American Geological Institute, 2000 For majors and non majors in undergraduate lab courses for Introductory Geology and Physical Geology The best selling lab manual for undergraduate lab courses in Physical Geology or Introductory Geology for majors and non majors With contributions from more than 120 highly regarded geologists and geoscience educators and an exceptional illustration program by Dennis Tasa this user friendly laboratory manual focuses students on the basic principles of geology and their applications to everyday life in terms of natural resources natural hazards and human risks This edition pushes the frontiers of geologic education even further with the inclusion of four new computer based labs *Laboratory Manual for Physical Geology* Malcolm Pickett Weiss, 1963 **Physical Geology** R. D. Dallmeyer, 1999-08 **Physical Geology Laboratory Manual** John Becker Lucke, Janet Mora Aitken, 1963 Practical Physical Geology John A. Ciciarelli, 1986 First Published in 1986 Routledge is an imprint of Taylor Francis an informa company Study Guide for Physical Geology, Geo 1001 (T451-W485) Robert Evan Sloan, E. C. Alexander (Jr.), 1985 Laboratory Manual for Physical Geology Sheldon Judson, Margaret Skillman Woyski, 1966 **Laboratory Manual in Physical Geology** Richard M. Busch, 1993 Lab manual placing great emphasis on student understanding of the earth as a complex evolving system having interacting processes and cycles of change designed for the introductory course lab component in physical geology Practical consistent exercise format concise background information 15 exercises and full color illustrations **A Laboratory Manual of Dynamic and Structural Geology** Kirtley Fletcher Mather, Ralph Gordon Lusk, 1929 **Laboratory Exercises in Physical Geology** William C. Putnam, Robert W. Webb, 1958 **Physical and Structural Geology - Laboratory** Mr. Rohit Manglik, 2024-03-04 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels *Laboratory Manual for Physical Geology* Norris W. Jones, 2000-07 If it is important for you to incorporate the scientific method into your teaching this manual aims to help In every exercise there are scientific method boxes that provide students with insight into the relevance of the scientific method to the topic at hand The book also includes in greater depth problems a more challenging probe into certain issues They are more quantitative in nature and require more in depth critical thinking Internet exercises are also integrated throughout the text **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

Physical Geology Lab Manual and Note Book John Tomikel,1966 *Laboratory Manual for Elementary Physical Geology* Hubert Andrew Ireland,1951 **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

Historical Geology: Laboratory Manual for Southern States James Frederick Louis Connell,1959 *The Publishers' Trade List Annual* ,1917 Elementary Geology Laboratory Manual Bowling Green State University. Department of Geology,1971

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