

# 6 Determining Geologic Age Summary Report Assignments

Determine the sequence of geologic events that occurred at the hypothetical illustration in figure 3. List your answers from oldest to youngest in the space provided by the figure. Letters M and N are faults J, K, and L are igneous intrusions, and all other layers are sedimentary rocks.

The following questions refer to figure 3.

a. What type of unconformity separates layer G from F? Disconformity

b. Which law, principle, or doctrine of relative dating did you apply to determine that rock layer G is older than layer H? Principle of superposition

c. Which law, principle, or doctrine of relative dating did you apply to determine that fault M is younger than rock layer E? Principle of cross-cutting relationships

d. Explain in your own words why you know that fault N is older than igneous intrusion J. Intrusion J is cutting across fault N. Principle of cross cutting fault N is older

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

e. If rock layer F is 150 million years old and layer E is 160 million years old, what is the approximate age of fault M? 130 to 160 million years

f. The analysis of samples from layer G, F, and C resulted in the following proportions of parent isotope to daughter isotope. How many half-lives have passed for each?

Layer	Parent	Daughter	% Lives
G	50%	50%	_____
F	25%	75%	_____
C	12.5%	87.5%	_____

g. If the half-life of the parent isotope in question 2.f is known to be 75 million years, what are the ages of the layers?

G \_\_\_\_\_ F \_\_\_\_\_ C \_\_\_\_\_

h. Using your answers from question 2.g and Figure 1, what period of time is nearly completely missing between rock layers G & F?

Period \_\_\_\_\_

Youngest \_\_\_\_\_

Oldest \_\_\_\_\_

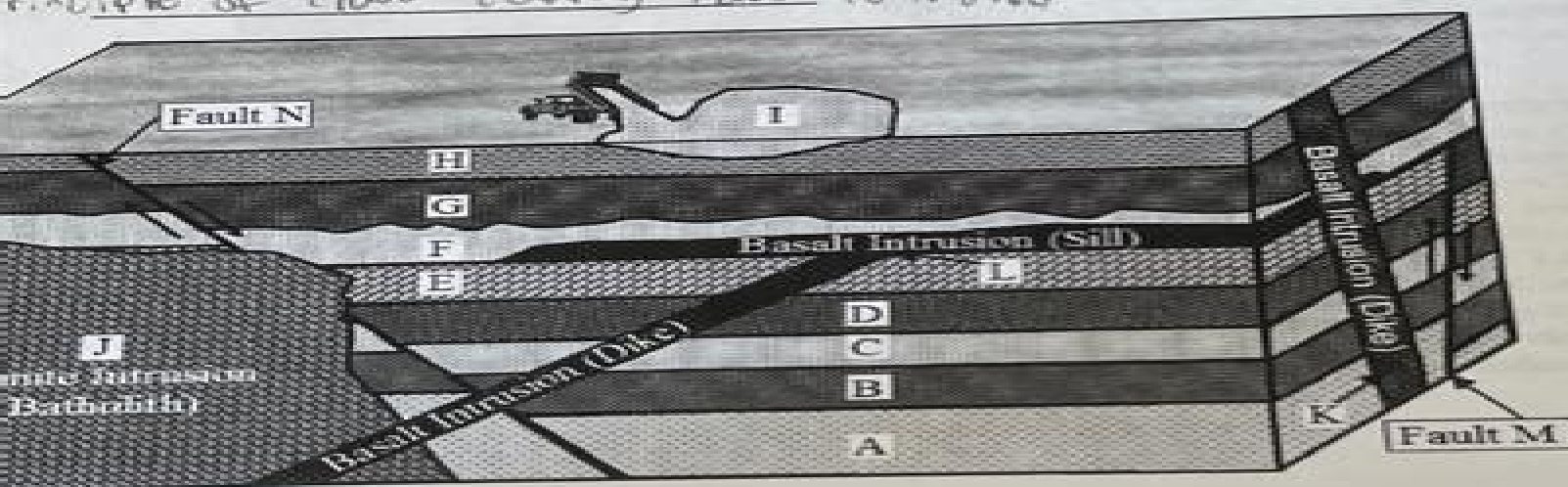


Figure 3

# Lab Manual Exercise 6 Determining Geologic Ages

**Norris W. Jones, Charles E. Jones**



## Lab Manual Exercise 6 Determining Geologic Ages:

*A Laboratory Manual of Dynamic and Structural Geology* Kirtley Fletcher Mather, Ralph Gordon Lusk, 1929

Laboratory Manual for Physical Geology James Herbert Zumberge, Robert Hoxie Rutford, 1991 This laboratory manual 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 nearly 30 exercises professors have great flexibility when developing the syllabus for their physical geology lab course The ease of use tremendous selection and tried and true nature of the labs selected have made this lab manual one of the leading selling physical geology lab manuals Elementary Geology Laboratory Manual Bowling Green State University. Department of Geology, 1971 **Laboratory Manual for Physical Geology** James H. Zumberge, 1995 The new edition of this popular laboratory manual continues to provide introductory lab exercises for students studying physical geology It incorporates exercises involving key areas in physical geology such as earth materials topographic maps aerial photographs structural geology and plate tectonics *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 *Laboratory Manual for Physical Geology* Norris W. Jones, Charles E. Jones, 2005 If it is important for you to incorporate the scientific method into your teaching this lab manual is the perfect fit 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 manual 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 which is unique to this type of manual **Physical Geology** R. D. Dallmeyer, 1999-08 *Elementary Physical Geology* Hubert Andrew Ireland, 1959 California Geology California. Division of Mines and Geology, 1991 Applications of Physical Geology Principles: a Laboratory Manual Victor Viosca Cavaroc, P. D. Fullagar, J. J. Gryta, 1977 Laboratory Exercises in Physical Geology Allan Ludman, 1993 Designed to help students gain a conceptual understanding through hands on experience this text uses an informal tone to invoke student interest and curiosity Features include hands on labs requiring only common inexpensive materials such as string glass jars and clay and a summary exercise Putting it All Together which challenges students to synthesize what they have learnt in previous chapters **Laboratory Manual** Arthur H. Brownlow, Mahlon J. Reinhard, 1965 **Manual for Laboratory Work in Geology** University of Chicago, 193? *Activity Units in Biology* Noel A. Taylor, Alfred L. Vandling, 1954 *The Education Quarterly*, 1964 **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 **Earth Resources Laboratory Investigations** James T

Constantopoulos,1997 Appropriate for introductory courses in Earth s resources or economic geology found in departments of Geology or Earth Science Designed to accompany Craig Vaughn and Skinner s Earth Resources and Kesler s Mineral Resources Economics and the Environment This lab manual includes both practical hands on exercises mineral identification as well as problems to develop analytical thinking skills     *Journal of Geological Education* ,1995     **Monthly Catalogue, United States Public Documents** ,1991     *Geoscience Abstracts* ,1960

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