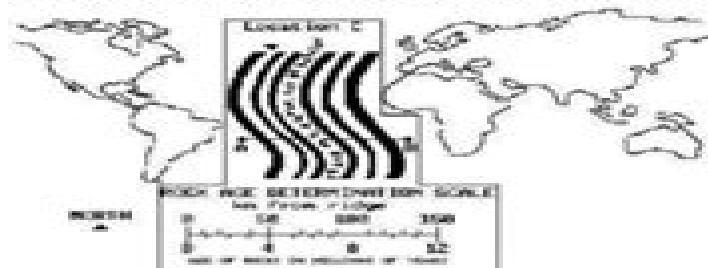


## EARTH SCIENCE Unit 5 Study Guide

Use this Study Guide to direct your study. Also study your Unit 5 Stapled Packet which should include your notes, practice sheets, and diagrams.

### Plate Tectonics

1. What causes tectonic plates to move?  
Convection currents in the mantle layer of the Earth
2. What features are associated with tectonic plate movement?  
Mountain ranges, earthquakes, increased volcanic activity
3. What does reversal of the Earth's magnetic poles indicate to plate tectonic scientists?  
The Earth's magnetic poles have exchanged position from time to time in the past, which is evidence that supports Plate Tectonics
4. What would be the age of rocks that are 20 km west of the mid-ocean ridge? Use the key given.



Normal – The magnetic minerals in these rocks indicate magnetic North as it is today.

Reverse – The magnetic minerals in these rocks indicate magnetic North where magnetic South is today

5. Why do volcanoes and ridges form at points where seafloor spreading occurs?  
As plates pull apart (separates), magma moves to the surface to fill the space. When this happens ridges form.
6. When plates are moving past each other in opposite directions, what kind of boundary is it?  
Transform
7. Compare & contrast oceanic and continental crust:  
Oceanic crust is thinner and denser, made of basaltic rock.  
Continental crust is thicker and less dense, made of granitic rock.
8. Compare & contrast convergent and divergent boundaries:  
Convergent boundaries -- collision (con-con) and subduction (oc-oc, oc-con) zones with volcanoes & thrust block fault mountains.  
Divergent boundaries -- spreading fault (seafloor spreading) or continental rift valley with mid-ocean ridges & fissure volcanoes (in space left by moving plates)
9. Why did the scientific community not support Alfred Wegener's Continental Drift theory for a long time?  
Because he didn't know about the underlying mechanism of Plate Tectonics, which supports it.
10. At a continental-ocean boundary, what usually forms?  
A subduction zone
11. What do colliding continental-continental tectonic plates create?  
Mountains composed of deformed sedimentary layers which are still increasing in elevation (Himalayas)

# Study Guide Key Stars Earth Science

**J Elliott**

## **Study Guide Key Stars Earth Science:**

**Earth Science** ,2001    Resources for Teaching Middle School Science Smithsonian Institution,National Academy of Engineering,National Science Resources Center of the National Academy of Sciences,Institute of Medicine,1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents    *The Sciences, Study Guide* James Trefil,Anthony J. Gaudin,Robert M. Hazen,2000-11-24 The Sciences An Integrated Approach 3e is the only text on the market for the integrated science course It integrates physics chemistry astronomy earth sciences and biology for students with little or no science background The new third edition builds on the successful previous edition by incorporating changes that meet reform curriculum guidelines Given the dynamic nature of the science disciplines covered in Trefil s text updated content is critical The new third edition has thoroughly updated

content throughout bringing the most up to date discoveries to the students in all five disciplines its broad approach that covers such a variety of the science disciplines updated content is crucial This revision has several significant changes URL s are included at the ends of each chapter many of the Science News boxes are updated to show hot topics **Resources in Education** ,1980 *In Quest of the Universe* Karl F. Kuhn,Theo Koupelis,2004 **Earth Science** ,2002-01-02 **Study Guide** Stanley Chernicoff,2001-08 From Edward E Chatelain Valdosta State University Georgia this study guide helps students review and master the key ideas from every chapter through labeling exercises Chapter Reviews with matching statements plus Practice Tests and Challenge Tests that consist of multiple choice true false matching and short essay questions Laboratory Manual for Earth Science C. Daniel Dillman,Robert R. Polk,1965 *Christian Home Educators' Curriculum Manual* Cathy Duffy,1995-07 Cathy Duffy draws upon her many years of home education experience both in teaching and researching curriculum to bring us the most thorough and useful book available on teaching teenagers at home

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