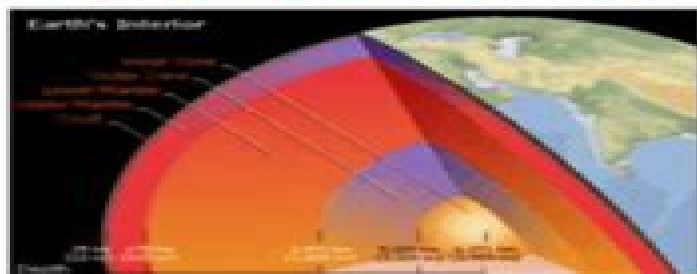


Name: _____ **KEY** _____ Standard 3 Students will understand the processes of rock and fossil formation.

Guided Notes: Earthquakes and Volcanoes Use the Geological Energy Powerpoint To fill out the guided notes of this packet from pages 1 through 4.



What are the layers of the earth starting with uppermost part going to the center?

1. _____
2. _____
3. _____
4. _____
5. _____

How deep in km is the following:

Crust: _____ Outer core: _____

Mantle: _____ Inner core: _____

1) **Crust:** is made up of _____

2) **Mantle:**

- _____: upper part of the mantle and the earth's crust made up _____ rock.
- _____: middle part of mantle made up _____ rock that can _____ slowly.
- _____: made up of _____ rock that goes to the core.

Core:

- Outer core: _____ metal and very _____!
- Inner core: _____ metal and very _____!

Introduction Game: * Relate the Earth's Layers to your own Layers!

The earth has three main layers: Crust, Mantle Core. Sometimes we only see someone's crust but don't get to know their mantle or even their inner self. What is your layers?

Crust: What people can tell by meeting you; what's on your outside:

Mantle: What good friends know about you after being friends a while:

Core: What only a few people know about you:

Assignment: Draw the layers of the earth, what is made up in each layer, and how deep it is. Then on the back side of the paper describe your own three layers.

Volcanoes are the result of _____ within the crust or mantle of the earth.

- The hot, liquid rock will break through weak spots in the surface and form volcanoes or flood basalts.



- Many volcanoes do not release lava, instead they spit ash and small bits of lava called _____.
- Some eruptions are quiet with very fluid (low viscosity) lava flows while others are explosive.

What's the difference between a quiet volcano and an explosive eruption? _____

How much time elapsed when Mt. St. Helen's blew? **About 30 seconds**

Earth Science Earthquakes Quiz Study Guide Key

Craig T. Smith



Earth Science Earthquakes Quiz Study Guide Key:

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outline and a list of learning objectives to help students focus and study Essential math review an entire section reviews the essential math needed to understand seismology This can be covered in class or left to students to review as needed End of chapter problem sets homework problems that cover the material presented in the chapter Solutions to all odd numbered problem sets are listed in the back so that students can track their progress Extensive References classic references and more current references are listed at the end of each chapter A set of instructor s resources containing downloadable versions of all the figures in the book errata and answers to homework problems is available at <http://levee.wustl.edu> seismology book Also available on this website are PowerPoint lecture slides corresponding to the first 5 chapters of the book

Earthquakes Jennifer Nault,2015-08-01 t 500 000 earthquakes happen every year around the world Most earthquakes are too small for people to notice Discover more about this feature of the natural world in Earthquakes a title in the Focus on Earth Science series *Earth's Surface Science Learning Guide* NewPath Learning,2014-03-01 The Earth s Surface Student Learning Guide includes self directed readings easy to follow illustrated explanations guiding questions inquiry based activities a lab investigation key vocabulary review and assessment review questions along with a post test It covers the following standards aligned concepts Weathering Erosion Mechanical Weathering Chemical Weathering Forces of Erosion Glaciers Soil Landforms and Reading Typographic Maps Aligned to Next Generation Science Standards NGSS and other state standards **Earth Science** ,2002-01-02 *Achievements and New Frontiers in Research Oriented to Earthquake Forecasting* Giovanni Martinelli,Antonella Peresan,Ying Li,2022-06-23 Cover Image Credit Zhaofei Liu and Ying Li From the Institute of Earthquake Forecasting China **Pre-GED Science** Arthur Wagner,1999-07-20 Comprehensive preparation for the Science of the GED Covers thoroughly the areas of biology chemistry earth science and physics It guides students in acquiring such skills as finding main ideas making inferences summarizing information and recognizing cause and effect relationships It also teaches students how to interpret scientific data and find the meaning of scientific words from context

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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

Resources in Education ,2000-04 Volcanoes Science Learning Guide NewPath Learning,2014-03-01 The Volcanoes Student Learning Guide includes self directed readings easy to follow illustrated explanations guiding questions inquiry based activities a lab investigation key vocabulary review and assessment review questions along with a post test It covers the following standards aligned concepts What is a Volcano Volcanoes The Ring of Fire Properties of Magma Inside a Volcano Volcanic Eruptions Volcanic Classification Life Cycle of Volcanoes and Volcanic Landforms Aligned to Next Generation Science Standards NGSS and other state standards Glencoe Earth Science Ralph M. Feather,1999 Earth science is the study of Earth and space It is the study of such things as the transfer of energy in Earth s atmosphere the evolution of landforms patterns of change that cause weather the scale and structure of stars and the interactions that occur among the water atmosphere and land Earth science in this book is divided into four specific areas of study geology meteorology astronomy and oceanography p 8 9 **A Vision for NSF Earth Sciences 2020-2030** National Academies of Sciences, Engineering, and Medicine,Division on Earth and Life Studies,Board on Earth Sciences and Resources,Committee on

Catalyzing Opportunities for Research in the Earth Sciences (CORES): A Decadal Survey for NSF's Division of Earth Sciences, 2020-08-31 The Earth system functions and connects in unexpected ways from the microscopic interactions of bacteria and rocks to the macro scale processes that build and erode mountains and regulate Earth's climate Efforts to study Earth's intertwined processes are made even more pertinent and urgent by the need to understand how the Earth can continue to sustain both civilization and the planet's biodiversity A Vision for NSF Earth Sciences 2020-2030 Earth in Time provides recommendations to help the National Science Foundation plan and support the next decade of Earth science research focusing on research priorities infrastructure and facilities and partnerships This report presents a compelling and vibrant vision of the future of Earth science research

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Earth Science Earthquakes Quiz Study Guide Key Introduction

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