

8th Grade Science

1st Semester Exam Study Guide

SCIENTIFIC METHOD

1. Why it is important for scientists to be skeptical? If a scientist is skeptical of the results of an experiment, what should he usually do?

Skepticism is one of the most valuable tools in science. Continual questioning of ideas and results is a means of overturning long-held assumptions and uncovering new ideas. A skeptic in science will continually review the credibility of a scientific result or idea.

2. What makes an experiment valid?

When the results give validity to the question (hypothesis) that is being asked or tested.

3. What is the difference between qualitative and quantitative data?

Qualitative Data is used to describe something using your 5 senses. Quantitative Data is when you describe something using numbers.

EARTH SCIENCE

4. What are the 4 layers of the Earth?

Inner core, outer core, mantle and crust

5. What are the two types of crust? What types of rock are they made of? Which type is more dense?

Continental – granite and Oceanic – basalt, oceanic is more dense

6. Which layer of the Earth is made of the crust plus the upper mantle (this layer is rigid and brittle like a jolly rancher)?

Lithosphere

7. Which layer of the Earth is plastic and flowing (like silly putty)?

Asthenosphere

8. Which layer (asthenosphere or lithosphere) is broken into large pieces called plates?

Lithosphere

9. Which layer (asthenosphere or lithosphere) carries the plates?

Asthenosphere

10. What process causes the tectonic plates to move?

Convection currents

11. What are the three types of plate boundaries? Describe how the plates move at each (toward each other, away from each other, or slide past each other).

Convergent – Plates come together/collide, Divergent – plates move away from each other/divide, Transform – plates slide past each other/shear

12. Describe what happens when the following plates collide:

- a. Continental crust collides with continental crust – mountains
- b. Continental crust collides with oceanic crust – subduction zone, oceanic trench and volcanoes, rift valleys
- c. Oceanic crust collides with oceanic crust - volcanoes

13. Where are ALMOST all volcanoes formed?

Volcanoes are most commonly found at subduction zone boundaries. This is where the thinner oceanic plates get pulled under the thicker continental plates. As the plates go deeper, they melt and form pockets of magma which can cause mountains to be built and as the hot magma rises, it erupts out of volcanoes.

14. What is a hot-spot volcano?

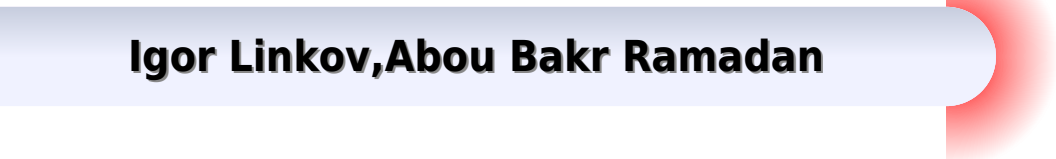
This is an extra hot plume of molten rock which causes the earth's crust to thin allowing molten rock to escape onto the surface. The movement of the earth's tectonic plates means that volcanoes form a trail along the earth's surface.

15. What occurs when too much stress builds up at a plate boundary and the rock finally breaks?

Earthquake

8th Science Eqt Study Guide

Igor Linkov, Abou Bakr Ramadan



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Understanding the Marginal Seas of Northeast Asia for Tectonics and Submarine Geohazards Kwang-Hee Kim, Han-Joon Kim, Tianyao Hao, Xunhua Zhang, 2022-08-29 *Popular Science*, 1945-05 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better

Nuclear Science Abstracts, 1972 [Nuclear Science Abstracts](#), 1972-04 [Library & Information Science Abstracts](#), 1979 *Comparative Risk Assessment and Environmental Decision Making* Igor Linkov, Abou Bakr Ramadan, 2006-03-02 Decision making in environmental projects is typically a complex and confusing process characterized by trade offs between socio political environmental and economic impacts Comparative Risk Assessment CRA is a methodology applied to facilitate decision making when various activities compete for limited resources CRA has become an increasingly accepted research tool and has helped to characterize environmental profiles and priorities on the regional and national level CRA may be considered as part of the more general but as yet quite academic field of multi criteria decision analysis MCDA Considerable research in the area of MCDA has made available methods for applying scientific decision theoretical approaches to multi criteria problems but its applications especially in environmental areas are still limited The papers show that the use of comparative risk assessment can provide the scientific basis for environmentally sound and cost efficient policies strategies and solutions to our environmental challenges *Assessment for Learning Within and Beyond the Classroom* Siew Fun Tang, Loshinikarasi Logonnathan, 2016-06-29 These conference proceedings focus on Assessment for Learning Within and Beyond the Classroom in recognition of the power of assessment for learning as a way of boosting student performance They explore the breadth depth and quality of the best models and practices strategies lessons learnt and discuss cases of successful implementation of assessment within the classroom and beyond including the virtual space They also provide fertile ground for stimulating and comparing responsive assessment approaches and practices in relatively new areas of assessment such as graduate capability assessment in view of the need for educational institutions to evidence graduate employability **Destination Branding and Bias in Ecotourism** Abrar, Muhammad, Nawaz, Muhammad Asim, Kiran, Faiqa, 2024-11-29 Destination branding in ecotourism shapes tourist and traveler s perceptions and experiences It creates a unique identity for a location that highlights its natural beauty cultural heritage and commitment to sustainability Biases may also impact this branding influencing which destinations are promoted and their perception by potential visitors Factors like socioeconomic status geographic location and environmental narratives can lead to disparities in visibility and accessibility Further understanding of these biases can develop authentic and equitable ecotourism practices that benefit both travelers and local communities Destination Branding and Bias in Ecotourism explores practices and strategies in ecotourism using destination marketing bias and brand authenticity It examines the use of intelligent technologies and data analysis for

marketing strategies to promote cultural sites and environmentally conserved areas This book covers topics such as environmental science digital technology and social media and is a useful resource for computer engineers environmental scientists marketers tourism professionals academicians and researchers

Dictionary Catalogue of the Library of the Pontifical Institute of Mediaeval Studies, Toronto, Canada: Roc-Z. Manuscript microfilm catalogue, authors A-Z Pontifical Institute of Mediaeval Studies. Library,1972

Quality Today ,2002

RADIALS Bulletin Library Association,1974

The Quarterly Review ,1951

The Times Index ,2009 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement

Postinternet Art and Its Afterlives Ian Rothwell,2023-12-19 Focusing on the postinternet art of the 2010s this volume explores the widespread impact of recent internet culture on the formal and conceptual concerns of contemporary art The postinternet art movement is splintered and loosely defined both in terms of its form and its politics and has come under significant critique for this reason This study will provide this definition offering a much needed critical context for this period of artistic activity that has had and is still having a major impact on contemporary culture The book presents a picture of what the art and culture made within and against the constraints of the online experience look sound and feel like It includes works by Petra Cortright Jon Rafman Jordan Wolfson DIS Amalia Ulman and Thomas Ruff and presents new analyses of case studies drawn from the online worlds of the 2010s including vaporwave anonymous image board culture irony bros and edgelords viral extreme sports stunts and GIFs The book will be of interest to scholars working in art history contemporary art and digital culture

Multiaxial Fatigue and Fracture E. Macha,W. Bedkowski,T. Lagoda,1999-09-06 This volume contains 18 papers selected from 90 presented at the Fifth International Conference on Biaxial Multiaxial Fatigue and Fracture held in Cracow Poland 8 12 September 1997 The papers in this book deal with theoretical computational and experimental aspects of the multiaxial fatigue and fracture of engineering materials and structures The papers are divided into the following four categories 1 Proportional cyclic loading 2 Non proportional cyclic loading 3 Variable amplitude and random loading 4 Crack growth Most papers in this publication talk about the behaviour of constructional materials and elements of machines under non proportional loading and under variable amplitude and random loading which are more realistic load histories met in industrial practice Variable amplitude loading under cyclic load with basic frequency and random loading under load with a continuous band of frequency is classified here This book gives a review of the latest world success and directions of investigations on multiaxial fatigue and fracture More and more often publications are results of the co operation of researchers from different laboratories and countries Seven out of eighteen papers included here were worked out by international authors teams This is a symptom of the times when science and investigations know no borders

Ecotoxicology, Ecological Risk Assessment and Multiple Stressors Gerassimos Arapis,Nadezhda Goncharova,Philippe Baveye,2006-02-09 The science of ecotoxicology and the practice of ecological risk

assessment are evolving rapidly Ecotoxicology as a subject area came into prominence in the 1960s after the publication of Rachel Carson s book on the impact of pesticides on the environment The rise of public and scientific concern for the effects of chemical pollutants on the environment in the 1960s and 1970s led to the development of the discipline of ecotoxicology a science that takes into account the effects of chemicals in the context of ecology Until the early 1980s in spite of public concern and interest among scientists the assessment of ecological risks associated with natural or synthetic pollutants was not considered a priority issue by most government However as the years passed a better understanding of the importance of ecotoxicology emerged and with it in some countries the progressive formalization of an ecological risk assessment process Ecological risk assessment is a conceptual tool for organizing and analyzing data and information to evaluate the likelihood that one or more stressors are causing or will cause adverse ecological effects Ecological risk assessment allows risk managers to consider available scientific information when selecting a course of action in addition to other factors that may affect their decision e g social legal political or economic Ecological risk assessment includes three phases problem formulation analysis and risk characterization **Cumulated Index Medicus** ,1967 *The Athenaeum* ,1846 Data Processing Annual ,1961 **Office Design: a Study of Environment** Pilkington Research Unit,1965

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