8th Grade Science 1st Semester Exam Study Guide

SCIENTIFIC METHOD

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

- 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

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:
 - Continental crust collides with continental crust mountains
 - 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 <u>trail</u> along the earth's surface.

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

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Bulletin United States. Office of Education, 1963 Herapath's Railway Magazine, Commercial Journal, and The Harvard School for Boys Harvard School for Boys (Chicago, Ill.),1889 Scientific Review ,1880 *Embracina* Diversity in the Learning Sciences Yasmin B. Kafai, William A. Sandoval, Noel Enyedy, Althea Scott Nixon, Francisco Herrera, 2012-10-12 More than a decade has passed since the First International Conference of the Learning Sciences ICLS was held at Northwestern University in 1991 The conference has now become an established place for researchers to gather The 2004 meeting is the first under the official sponsorship of the International Society of the Learning Sciences ISLS The theme of this conference is Embracing Diversity in the Learning Sciences As a field the learning sciences have always drawn from a diverse set of disciplines to study learning in an array of settings Psychology cognitive science anthropology and artificial intelligence have all contributed to the development of methodologies to study learning in schools museums and organizations As the field grows however it increasingly recognizes the challenges to studying and changing learning environments across levels in complex social systems This demands attention to new kinds of diversity in who what and how we study and to the issues raised to develop coherent accounts of how learning occurs Ranging from schools to families and across all levels of formal schooling from pre school through higher education this ideology can be supported in a multitude

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- 1. Understanding the eBook Science Review Finals 8th Grade
 - The Rise of Digital Reading Science Review Finals 8th Grade
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Science Review Finals 8th Grade
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Science Review Finals 8th Grade
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Science Review Finals 8th Grade
 - Personalized Recommendations
 - Science Review Finals 8th Grade User Reviews and Ratings
 - Science Review Finals 8th Grade and Bestseller Lists
- 5. Accessing Science Review Finals 8th Grade Free and Paid eBooks
 - Science Review Finals 8th Grade Public Domain eBooks
 - Science Review Finals 8th Grade eBook Subscription Services
 - Science Review Finals 8th Grade Budget-Friendly Options
- 6. Navigating Science Review Finals 8th Grade eBook Formats

- o ePub, PDF, MOBI, and More
- Science Review Finals 8th Grade Compatibility with Devices
- Science Review Finals 8th Grade Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Science Review Finals 8th Grade
 - Highlighting and Note-Taking Science Review Finals 8th Grade
 - Interactive Elements Science Review Finals 8th Grade
- 8. Staying Engaged with Science Review Finals 8th Grade
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Science Review Finals 8th Grade
- 9. Balancing eBooks and Physical Books Science Review Finals 8th Grade
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Science Review Finals 8th Grade
- 10. Overcoming Reading Challenges
 - $\circ\,$ Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Science Review Finals 8th Grade
 - Setting Reading Goals Science Review Finals 8th Grade
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Science Review Finals 8th Grade
 - Fact-Checking eBook Content of Science Review Finals 8th Grade
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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