

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

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Aubrey Augustus Douglass



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Table of Contents Science Review Finals 8th Grade

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
 - 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
 - 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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