

Disclaimer: This review sheet is an attempt to help you to realize what topics are most important and thus most likely to appear on the exam. This review sheet is not meant to be a direct listing of the questions that I will ask anyone answers. This review sheet is much longer than what your actual exam will be. The purpose of this course not to memorize a list of terms and then take an exam on that list. The purpose of this course is to learn about geological concepts and then to use your knowledge to critically think about the implications for the earth and the world around you. Keep these thoughts in mind as you prepare for the exam.

Chapter 9 :: The Wrath of Vulcan: Volcanic Eruptions

- Lava flows: What are the basic properties of basaltic/mafic, intermediate/andesitic, and felsitic/felsic flows?
- What are pillowflows and so? What kind of lava do they apply to?
- Columnar joints...describe them and how they form
- Pillow basalts...what are they and where do they form?
- Lava domes...what kind of lava? What do they cause in terms of eruption behavior?
- Pyroclastic debris...know the various components, what they are made of, and be able to describe/compare them. What kinds of rocks form from lithified pyroclastic debris?
- Features of an explosive eruption? Pyroclastic flows?
- Blocks vs. bombs? How do they differ?
- Ash fall vs pyroclastic flow...what is the difference?
- Lahars? What are they and why do they form?
- Volcanic gas...what is the effect of gas, what does gas do to eruptions and what evidence do we see in rocks or trapped gas in ancient eruptions? What rocks form because of lava with abundant gas?
- Scoria vs. Pumice? How are they similar and how are they different?
- Do all volcanic eruptions erupt from a vertical pipe-like structure?
- Magma chambers? Craters + Calderas? Differences?
- Volcano morphologies types: describe and identify the three types...how is each formed?
- What factors control eruptive styles of volcanoes? Effusive, explosive, plinian/strombolian, etc.
- Which types of eruptions happen at subduction zones? Divergent? Hot spots (continental and oceanic)?
- Why are there volcanoes in Hawaii and Yellowstone? Why do these volcanoes behave so differently?
- Know the basic types of hazards the volcanoes pose to society.
- How do we monitor volcanoes?

Chapter 10 :: A Violent Pulse: Earthquakes

- What types of geologic phenomena produce earthquakes?
- Hypocenter, Epicenter, Focus, what are they?
- Be able to name and describe the various types of faults (overthrust, strike-slip, normal, oblique)
- Hanging wall and footwall: be able to identify and describe them.
- How do you describe the motion of a strike-slip fault? (Here they do not have a hanging wall or footwall)

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Table of Contents Gly1101 Syllabus

1. Understanding the eBook Gly1101 Syllabus
 - The Rise of Digital Reading Gly1101 Syllabus
 - Advantages of eBooks Over Traditional Books
2. Identifying Gly1101 Syllabus
 - 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 Gly1101 Syllabus
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gly1101 Syllabus
 - Personalized Recommendations
 - Gly1101 Syllabus User Reviews and Ratings
 - Gly1101 Syllabus and Bestseller Lists
5. Accessing Gly1101 Syllabus Free and Paid eBooks
 - Gly1101 Syllabus Public Domain eBooks
 - Gly1101 Syllabus eBook Subscription Services
 - Gly1101 Syllabus Budget-Friendly Options

6. Navigating Gly1101 Syllabus eBook Formats
 - ePub, PDF, MOBI, and More
 - Gly1101 Syllabus Compatibility with Devices
 - Gly1101 Syllabus Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gly1101 Syllabus
 - Highlighting and Note-Taking Gly1101 Syllabus
 - Interactive Elements Gly1101 Syllabus
8. Staying Engaged with Gly1101 Syllabus
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gly1101 Syllabus
9. Balancing eBooks and Physical Books Gly1101 Syllabus
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gly1101 Syllabus
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Gly1101 Syllabus
 - Setting Reading Goals Gly1101 Syllabus
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gly1101 Syllabus
 - Fact-Checking eBook Content of Gly1101 Syllabus
 - 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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