

# Geological Activity from Plate Tectonics Processes

## Mountain Building

### What Do Converging Plates Create?

- **Converging** plates create mountain ranges through three combinations of plate types—continent-continent, continent-ocean, and ocean-ocean.
- The converging plates smash together and upward to create mountain ranges, and stress from these **uplifts** causes folds, reverse faults, and thrust faults.
- **Subduction** of oceanic lithosphere at convergent plate boundaries also builds mountain ranges on continental crusts.

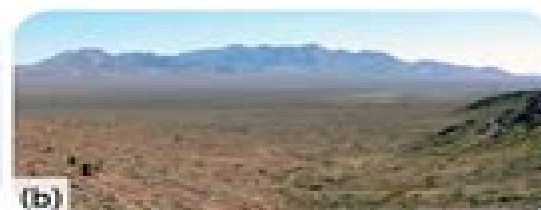
#### Study Tip

Diverging sounds like dividing, which means to separate, so diverging plates separate from each other.



Continental-continental convergence

*Illustration of converging plates*



*Illustration of diverging plates*

### How Does Divergence Create Mountains?

- **Divergence**, or the plates spreading apart, can also create mountain ranges.
- Alternating mountains and valleys are created when tensional stresses pull the crust apart, breaking it into blocks that slide along faults. These are known as basin-and-range, where the uplifted blocks, or ranges, are known as horsts and the basins are called grabens.

### Concept Check

- Make sure you know the difference between convergence and divergence.
- Be able to define uplift.

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## **Table of Contents Study Guide Mountain Building**

1. Understanding the eBook Study Guide Mountain Building
  - The Rise of Digital Reading Study Guide Mountain Building
  - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide Mountain Building
  - 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 Study Guide Mountain Building
  - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide Mountain Building

- Personalized Recommendations
- Study Guide Mountain Building User Reviews and Ratings
- Study Guide Mountain Building and Bestseller Lists
- 5. Accessing Study Guide Mountain Building Free and Paid eBooks
  - Study Guide Mountain Building Public Domain eBooks
  - Study Guide Mountain Building eBook Subscription Services
  - Study Guide Mountain Building Budget-Friendly Options
- 6. Navigating Study Guide Mountain Building eBook Formats
  - ePub, PDF, MOBI, and More
  - Study Guide Mountain Building Compatibility with Devices
  - Study Guide Mountain Building Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Study Guide Mountain Building
  - Highlighting and Note-Taking Study Guide Mountain Building
  - Interactive Elements Study Guide Mountain Building
- 8. Staying Engaged with Study Guide Mountain Building
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Study Guide Mountain Building
- 9. Balancing eBooks and Physical Books Study Guide Mountain Building
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Study Guide Mountain Building
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Study Guide Mountain Building
  - Setting Reading Goals Study Guide Mountain Building
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Study Guide Mountain Building

- Fact-Checking eBook Content of Study Guide Mountain Building
- 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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