

Name _____

Tsunamis Unveiled: The Forces Behind Their Formation and Mitigation Strategies

Short Answer Key

1. Tsunamis are primarily caused by underwater earthquakes, submarine volcanic eruptions, and underwater landslides.
2. Early warning systems are important in tsunami mitigation because they can detect underwater earthquakes and provide timely alerts to coastal communities, allowing for evacuation.
3. Wave shoaling is the phenomenon where tsunamis have small wave heights in deep water but grow to great heights as they approach shallow coastal areas, making it relevant to tsunami impact near coastlines.
4. Land use planning can help mitigate the impact of tsunamis by restricting construction in vulnerable areas and enforcing building codes for tsunami-resistant structures.
5. Public education and awareness are crucial in tsunami-prone areas because they help residents recognize natural signs of approaching tsunamis and respond by moving to higher ground.

