

Name _____

Building Resilience: Designing for Earthquake Safety

Open-Ended Response Answer Key

1. Answers will vary depending on the real-life example discussed. Include details about the techniques used, their effectiveness during an earthquake event, and any notable outcomes.
2. Base isolation technology has evolved with advancements in materials and engineering. Historic examples, such as the California State Capitol, showcase the effectiveness of base isolation in preserving buildings during earthquakes.
3. Government regulations and building codes set standards for earthquake-resistant design, ensuring public safety. These regulations specify design criteria, materials, and construction methods, reducing the risk of structural failure in seismic events.
4. Architects and engineers must balance safety, cost, and aesthetics when designing earthquake-resistant buildings. Considerations include building location, local seismic activity, budget constraints, and the desired architectural design.

