

## Seismic Questions Answer Key

1. Greece is earthquake-prone because it lies near the boundaries of several active tectonic plates.
2. The movement of these plates causes stress in the Earth's crust, leading to frequent and sometimes strong earthquakes.
3. City planners must consider building safety, emergency routes, and construction rules to reduce damage and protect residents.
4. Earthquakes can weaken or collapse fragile ancient structures that were not built to withstand seismic activity.
5. Strategies include stronger building codes, restoration projects, reinforcement of historic structures, and improved emergency planning.
6. Answers will vary but should include reasoning based on differences in structure age, materials, and design.

### Teacher's Guide

#### Purpose

- Support grades 8 to 12 in understanding why Greece experiences frequent earthquakes.
- Strengthen critical thinking about how seismic activity affects urban development and cultural preservation.

#### Instructional Tips

- Explain the general location of Greece in relation to major plate boundaries.
- Encourage students to support each answer with evidence or examples from class discussions.
- Model how to connect physical geography to real-world impacts.

#### Differentiation

- Allow paired discussion before writing for students who benefit from verbal processing.
- Offer enrichment by asking advanced learners to compare Greece's seismic risks with those of another country.