

# Earthquake Investigation

*Learning objective: To understand the causes and effects of earthquakes*

Complete this fact-file to learn more about earthquakes. Use your knowledge from class and research to answer the questions.

*Word bank: tectonic plates · seismic waves · fault line · earthquake magnitude · aftershock*

**1. What are tectonic plates and how do they cause earthquakes? (2 marks)**

---

**2. Describe the difference between an earthquake's magnitude and intensity. (3 marks)**

---

---

**3. What is a fault line and how do scientists study them? (3 marks)**

---

---

**4. Explain the concept of seismic waves and their role in an earthquake. (4 marks)**

---

---

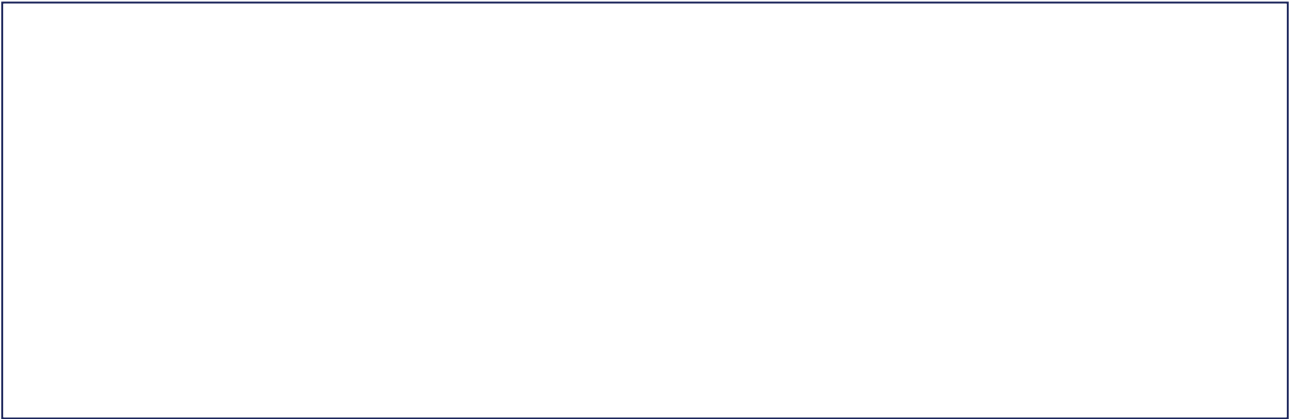
---

**5. What is an aftershock and how can it affect a community? (2 marks)**

---

---

**Draw:** Draw a diagram of the Earth's surface showing where tectonic plates meet and how earthquakes occur.



*Extension challenge: Research and write about a real-life earthquake event, including its cause, effect, and how it was managed.*