

# Earthquaker

## Procedure

- 1. Collaborate** Work with a partner. Fill the pan half full with damp sand. Pack down the sand.
- 2.** Cut the cardboard in half lengthwise to form two strips. Place the two strips side by side on the sand and extending up the edge of the pan. Fill the pan with sand. Pack down the sand.
- 3. Use Models** Place a tray on the pan. Work with your partner to carefully turn the pan and tray upside down onto the newspaper. Slowly lift and remove the pan. Place three cups upside down on the sand formation.
- 4. Predict** The cardboard strips represent parts of Earth's crust. Predict what will happen when you tug back and forth on the strips. Record your prediction on the lines below.

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- 5. Observe** Gently move one cardboard strip back and forth. Observe and record what happens to the sand and cups.

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## Conclusion

Write the answers to the questions below.

1. **Infer** If the cardboard strips represent parts of Earth's crust, what does your pulling of the strips represent? What do the sand and the paper cups represent?

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2. **Infer** How do you think earthquakes affect Earth's surface?

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## Investigate More!

**Research** Use the Internet or library to find out how people build houses and other buildings that can survive an earthquake. Write a paragraph about what you learn.