

Purpose: To reflect on your inquiry with P-waves and S-waves

Guiding Questions:

- What is a wave?
- How are the waves generated by an earthquake similar and different to each other?

1. Describe your observations of each type of wave.

a. Describe the type of wave created each time you moved the spring.

b. What was the purpose of using the floor tiles in this investigation?

c. Cite data to make a claim of which wave was faster.

d. What could explain differences between groups' wave times?

e. Which data is more valid: your group data, class data, or team data? Why?

2. Read "Designing Earthquake-Resistant Buildings" on pages 19-23 of the XPT book and respond to the following.

a. Use examples from the from the reading selection to explain the causes for a building to collapse in an earthquake.

b. Describe several design features that can be added to a building to make it earthquake-resistant.