



# Explaining Earthquakes



1. Define the following  
Earthquake: \_\_\_\_\_

Focus (Focal Point): \_\_\_\_\_

Seismic Waves: \_\_\_\_\_

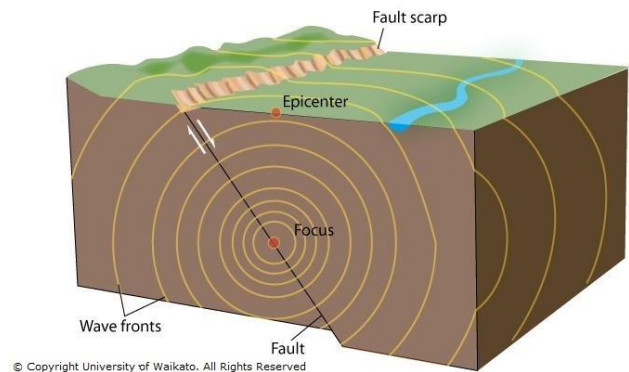
2. What are the types of seismic waves?

3. Draw a diagram of the motion of P waves

4. Draw a diagram of the motion of S waves

5. Which waves are detected by seismographs first? Why?

## Seismic Waves Radiate from the Focus of an Earthquake



Name \_\_\_\_\_ Date \_\_\_\_\_ Core \_\_\_\_\_

6. What does the P in p-waves represent? What does the S in s-waves represent?

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7. Why are s-waves more dangerous than p-waves?

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8. Name the two types of surface waves.

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9. Why are Raleigh waves the most destructive?

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10. The building built on which substrate received the least damage from the earthquake waves?

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