

Student Directions for Simulating Earthquakes

1. Click the following link to launch the earthquake simulation website:

<http://dsc.discovery.com/anthology/unsolvedhistory/earthquake/interactive/interactive.html>

Your group will use this website to discover where and how to create buildings that have better chances of surviving earthquakes. You will keep track of your data in the following Microsoft Excel template:

[Simulating Earthquakes](#) 30 KB Microsoft Excel file

You will record your conclusions in Microsoft Word.

2. Using the online simulator, your group will simulate at least 5 different earthquakes. Change the locations of the buildings, the earthquake-proofing building constructions, and the magnitudes of the earthquakes. Make sure you keep track of your data in the Excel workbook so that you can use the data to record your conclusions.
3. Print out your excel file when you have completed at least 5 different Earthquakes.
4. Discuss with your group what you discovered. Did you find that the location of a building makes a difference? Did you notice if certain types of earthquake-proofing construction worked better than others? Did you notice how much the size of the earthquake affected the survival of the building? Record your conclusions in Word and add your data from your Excel file to support your findings.