




# Seismic Station Website

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# How and Where Earthquakes Happen:

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An Earthquake is a movement or trembling of the ground that is caused by a sudden release of energy when rocks along a fault move. An elastic rebound is a sudden return of elastically deformed rock to its undeformed shape.

Earthquakes occur when rocks under stress suddenly shift along the fault. A fault is a break in a body of rock along which one block moves relative to another.

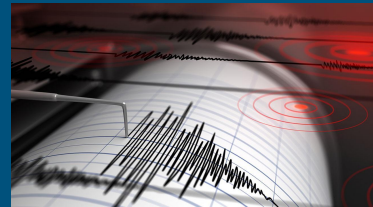
Earthquakes are common in California, where the San Andreas Fault is located.

They are also common in Turkey because it falls in a seismic zone Arabian, Eurasian, and African plates. Japan tops the list of prone areas for Earthquake activity, Japan is also home to 452 volcanoes, making it the most disruptive geographic location in terms of natural catastrophes.

# What can a Person do Stay Safe During an Earthquake?

There are many hazards caused by earthquakes. The biggest danger, and the one you should worry about most if you ever find yourself in one, is stuff falling onto you, or you losing your balance and falling into stuff, such as a table or a chair that could knock you unconscious.

To stay safe safe and prevent yourself from getting hurt or even killed in this life threatening event, there are some important procedures that may save your life. The first thing you should do is drop, cover and hold on. You should stay indoors and keep shelter until all shaking stops and it is safe to go out. If your in bed, stay there and protect your head with a pillow. If you are in a car or outdoors, get as far away as possible from anything that could fall on you.



# How Can Buildings/Structures be Built to Withstand Earthquakes?

Wood and steel have more give than stucco, the best material to use to put around your house is the unreinforced concrete, or masonry, which are favored materials for building in fault zones. Many construction people build skyscrapers everywhere and they use unreinforced concrete so that it can withstand high winds, but in quake zones. Also, another way is to have many people have used triangular support in the bottom of their house so that when the earthquake comes the bottom of the house will stay strong and supported by the triangular support from the bottom of the house.



This is the unreinforced concrete

# Thanks For Watching!

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We hoped you learned a thing or two about earthquakes!



# Work:

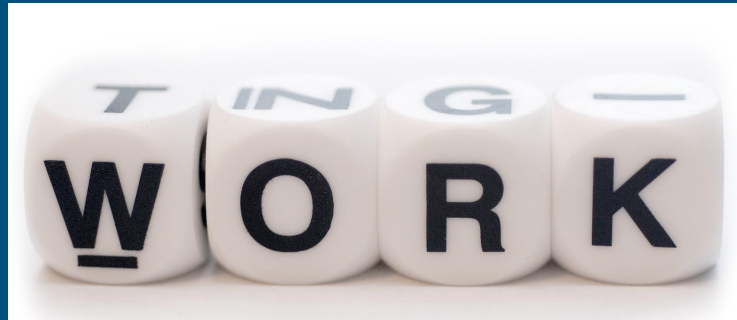
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Jack - How and Where Earthquakes Happen

Andrew - Pictures/GIFS, Extra Slides

Nick - How to stay safe during an Earthquake

Adryan - How buildings are made to withstand Earthquakes



# Bibliography

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