

How to React when an Earthquake Strikes

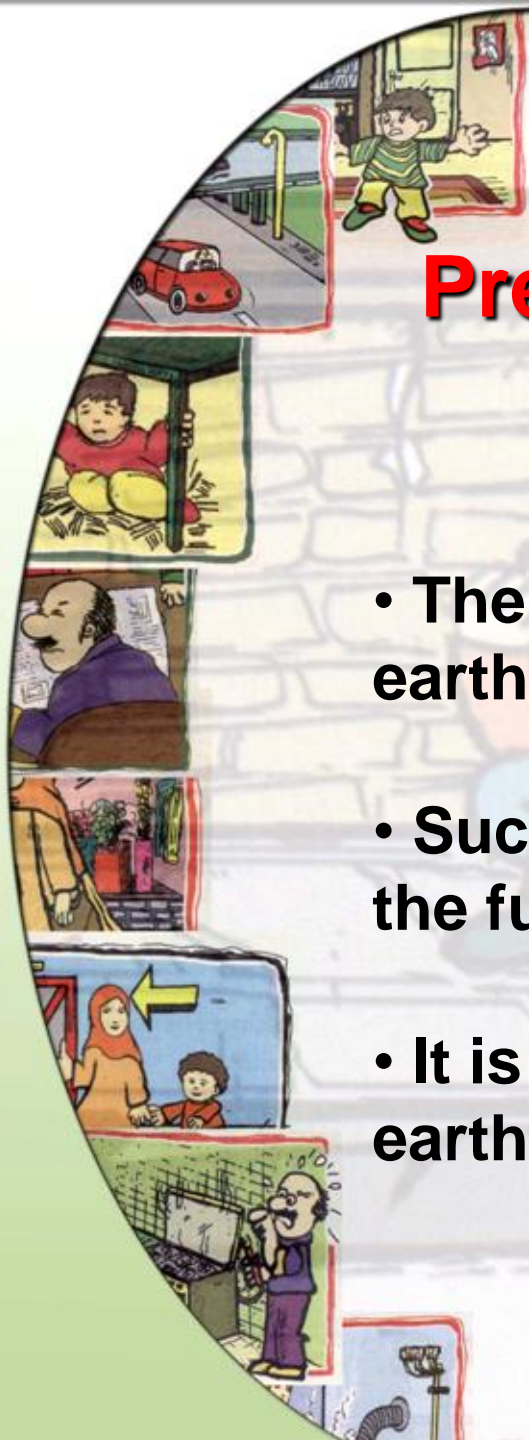
Earthquake Preparedness

(Seismic Awareness / Education)

Before, During and After

Introduction

- An earthquake is a natural phenomenon that occurs as a result of the sudden release of some stored energies in the earth's crust.
- Earthquakes strike suddenly and cannot be predicted.
- Seismologists are able to identify the possible locations of the future earthquakes according to the seismicity of various regions
- Preparedness is one of the best procedures for preventing and reducing earth-quake hazards.



Preparing for an Earthquake in Palestine

- The region has a history of devastating earthquakes.
- Such earthquakes may occur again in the future.
- It is impossible to predict when an earthquake will strike



**Remember that your own and
your family's safety depends
on what you have planned
and done before the occurrence
of a disaster.**



Before the Earthquake



Before the Earthquake

Preparing your family

Have a family plan on how to act during an earthquake:

- Where the safe places are in the home.
- How to evacuate and where to meet if separated.
- Make sure your children know how to call 101 for emergencies .

Preparing your family

Prepare an emergency bag that contains:

- Identification cards, flashlight, battery-operated radio, first aid kit, dried or canned foods, water, can opener, essential medicines, cash, extra batteries, matches, cloths, whistle, hand tools (wrench, screwdriver, etc), blankets, and anything else you think your family needs in case of an emergency.



**Before
the
Earthquake**



**Before
the
Earthquake**

Structural safety includes:

- When buying or renting a new house, seek advice from earthquake engineers and listen to their recommendations, so you are sure your building is earthquake resistant.



**Before
the
Earthquake**

Structural safety includes:

- Old and weak buildings can be made earthquake resistant, and this can be done under the supervision of professionals at little cost.
- Before making any changes in the structure of a building, for example before displacing or removing walls, doors or windows, etc. consult with experts



**Before
the
Earthquake**

Preparing your home (to avoid the nonstructural damages):

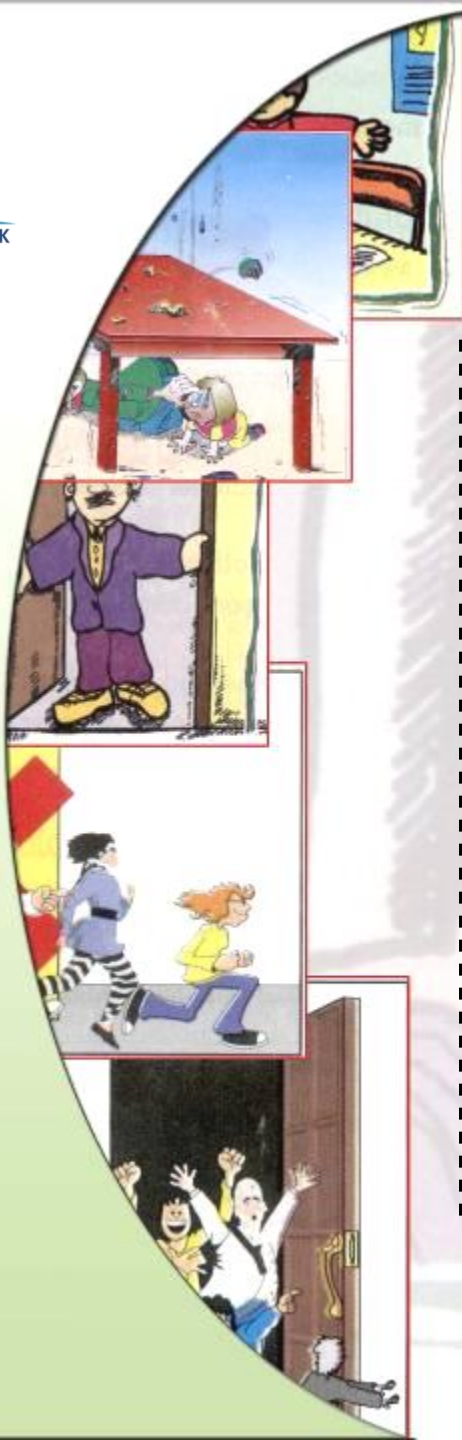
- Fasten shelves securely to walls.
- Place large or heavy objects on lower shelves.
- Store breakable items such as glass and bottled foods in low, closed cabinets.
- Brace overhead light fixtures.
- Repair defective electrical wiring and leaky gas connections. These are potential fire risks.

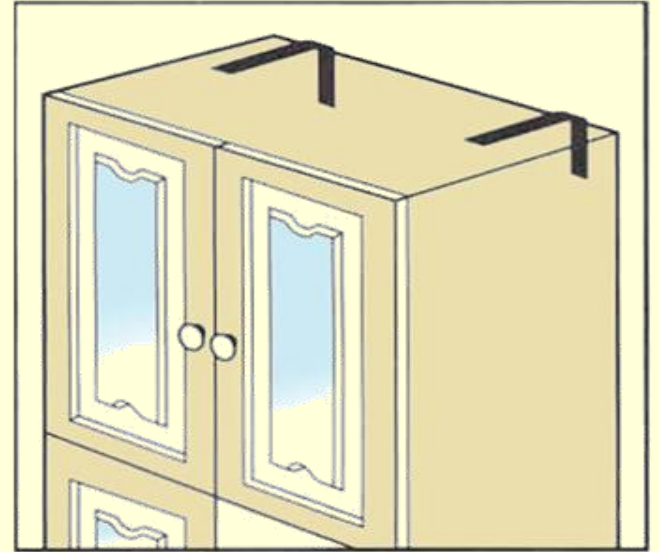
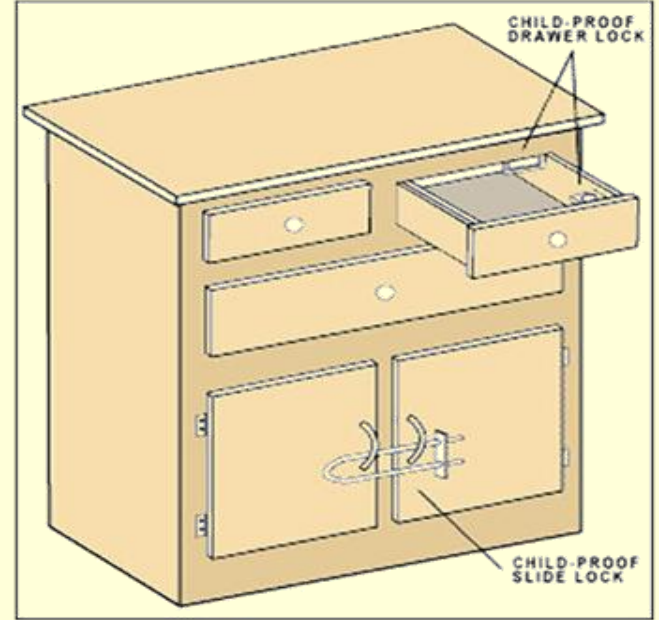
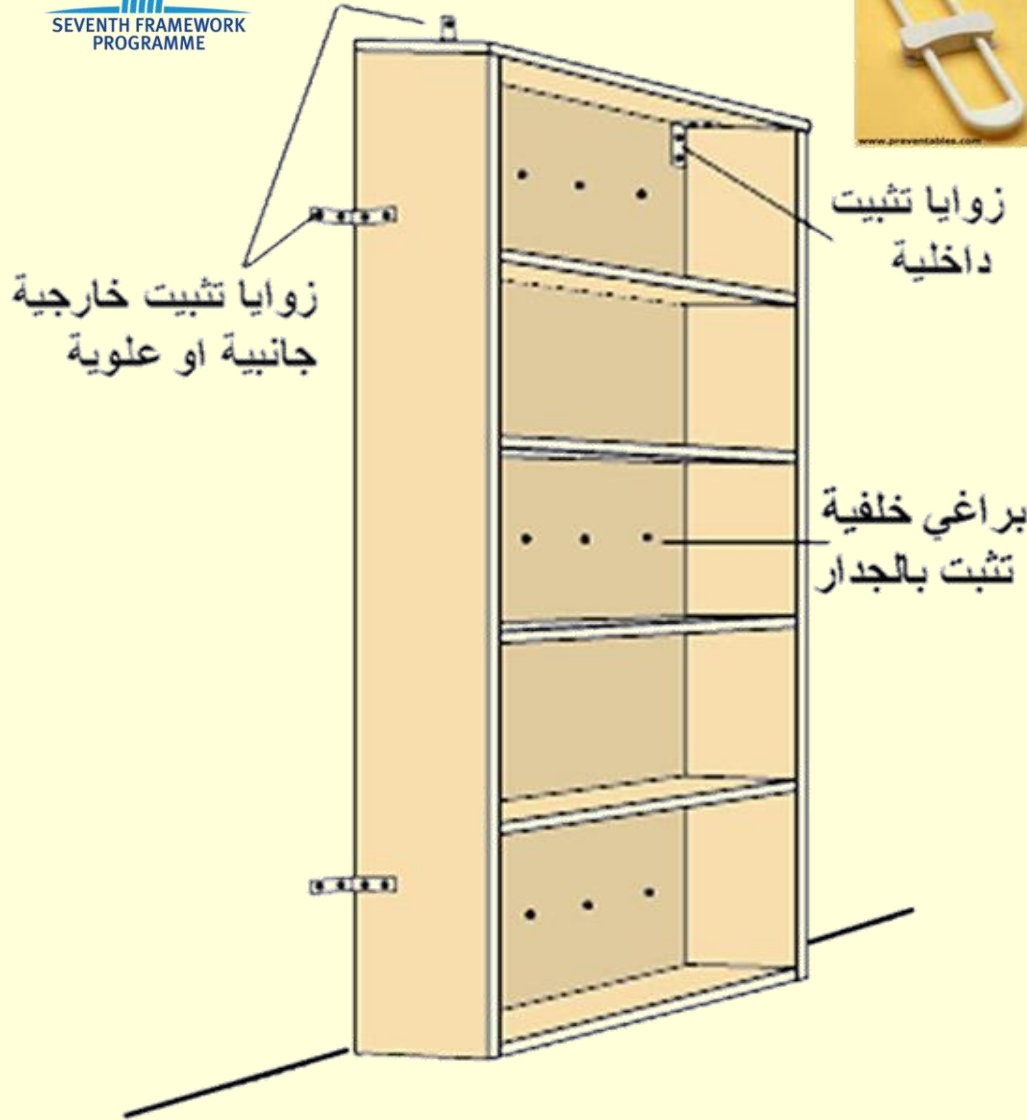






**Before
the
Earthquake**



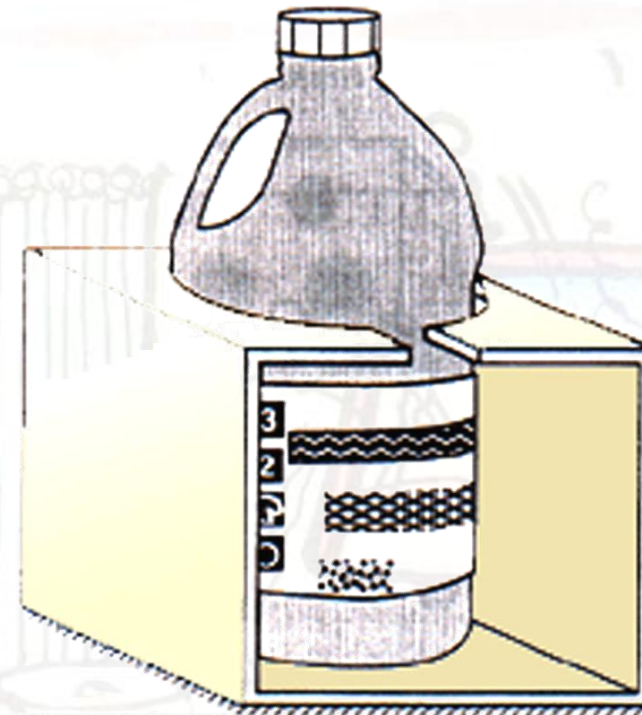






**Before
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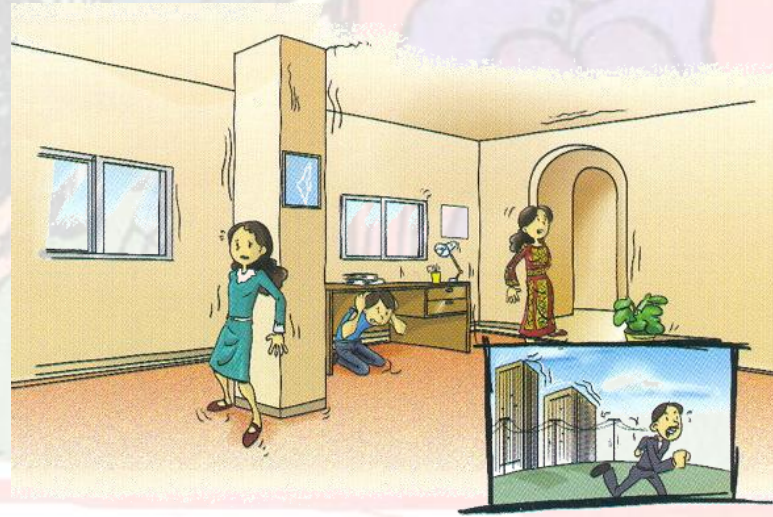


**Before
the
Earthquake**

Identify safe places in your home:

- Under sturdy furniture such as a heavy desk or table.
- Beneath a doorway.
- At the corner of a room.
- Next to indoor columns.
- Away from where glass could shatter around windows, mirrors, pictures, or where heavy objects could fall over.

**Before
the
Earthquake**



During An Earthquake



For your safety during an earthquake:

If indoors:

1. Go outdoors:

- * Only if it is possible to exit the building immediately (within seconds).**
- * Stay away from buildings**

For your safety during an earthquake:

3. Crawl under a heavy table or into an inner corner of the room



Good



Good



During An Earthquake



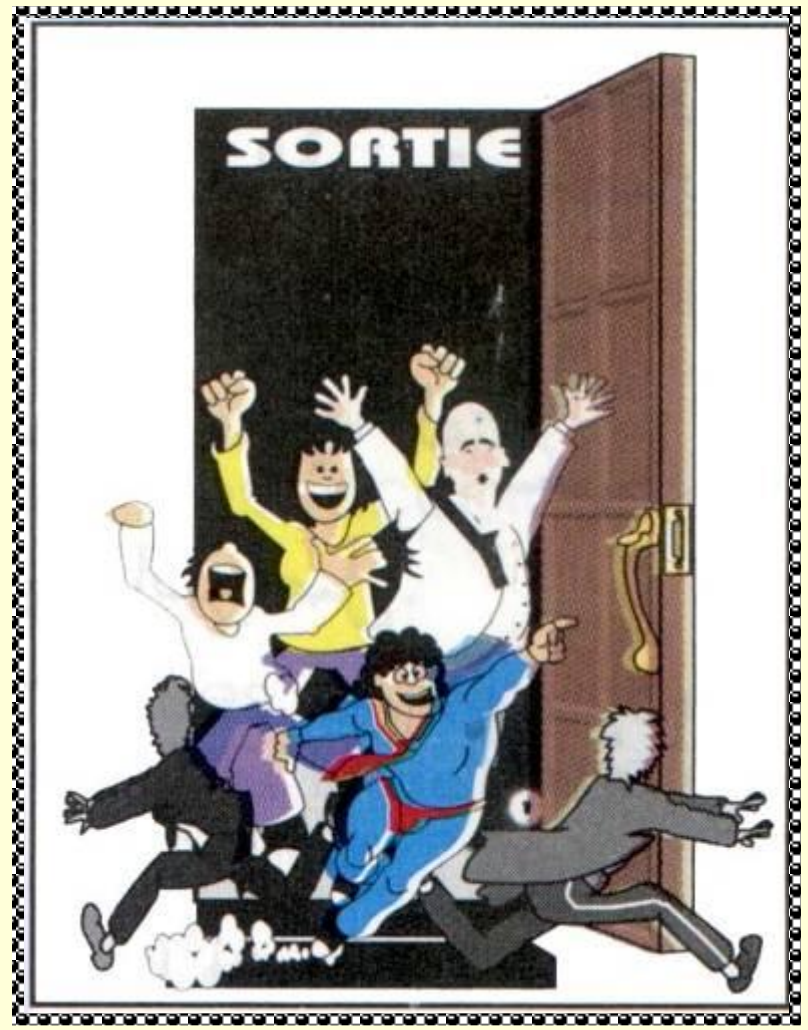
Good



Good

During An Earthquake

الهلع والتدافع للخروج
يسبب خسائر بشريا
من حدوث الزلزال



X

X

During An Earthquake



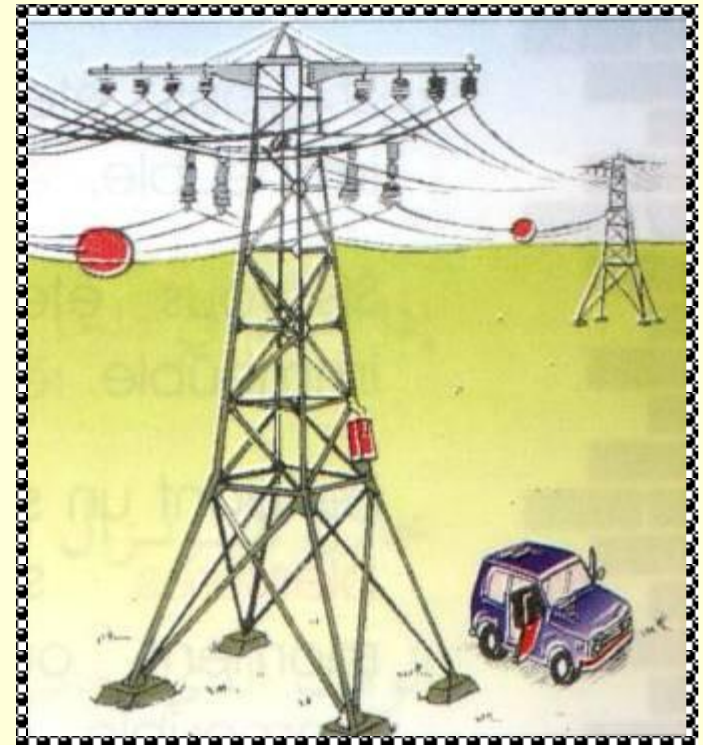
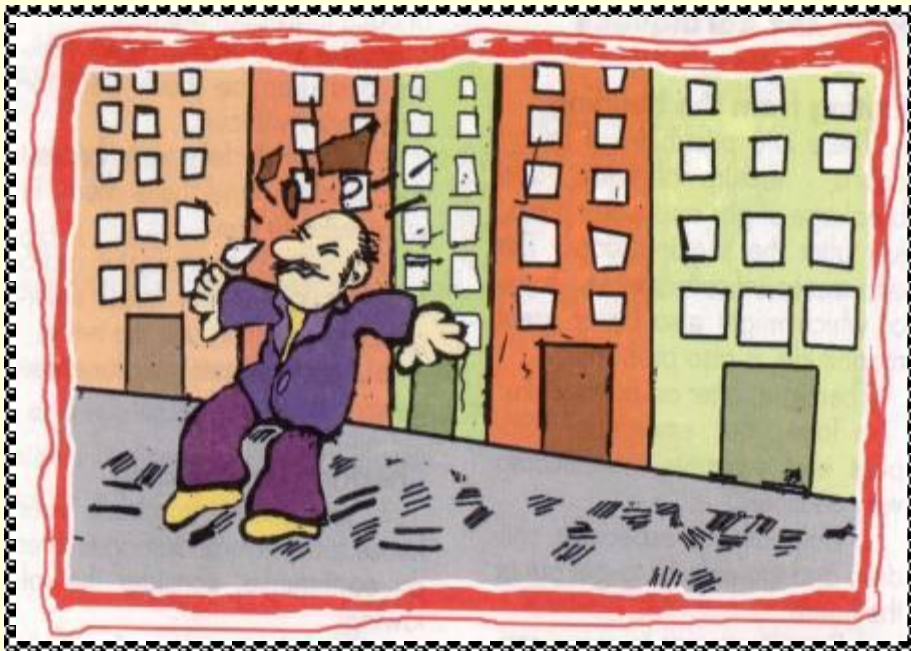
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During An Earthquake

If outdoors:

- Stay in the open
- Keep away from buildings, bridges or electric pylons and poles.



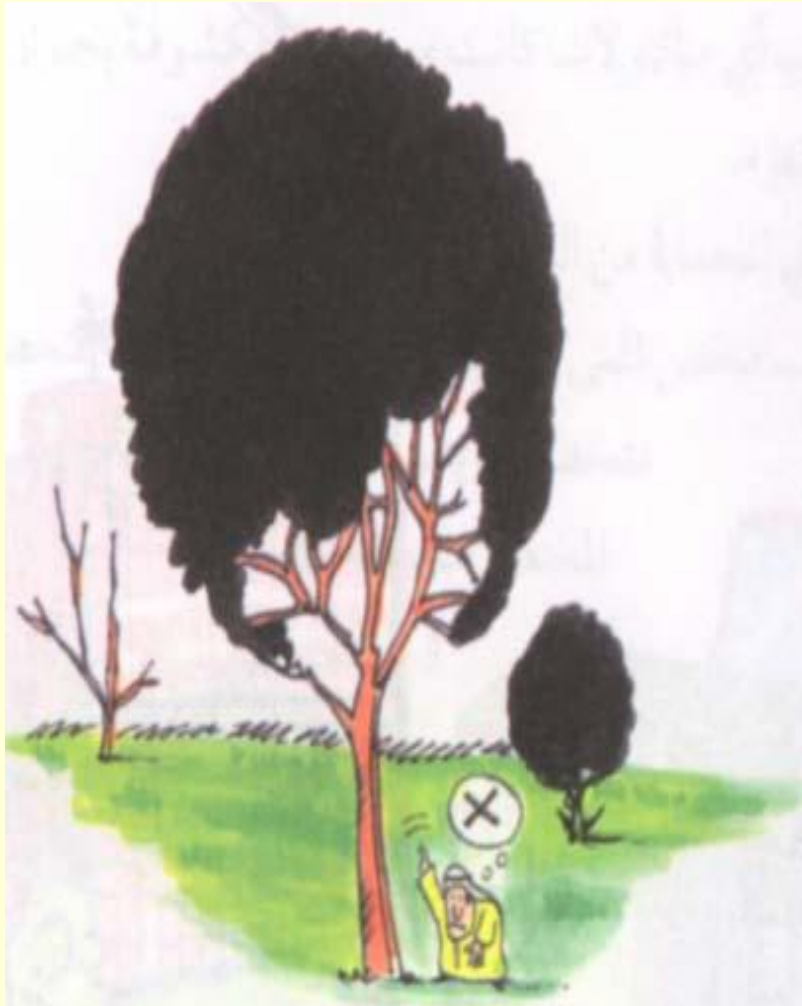


**During
An
Earthquake**

**Stay away from buildings' outer
walls, windows, and shelves.**



During An Earthquake

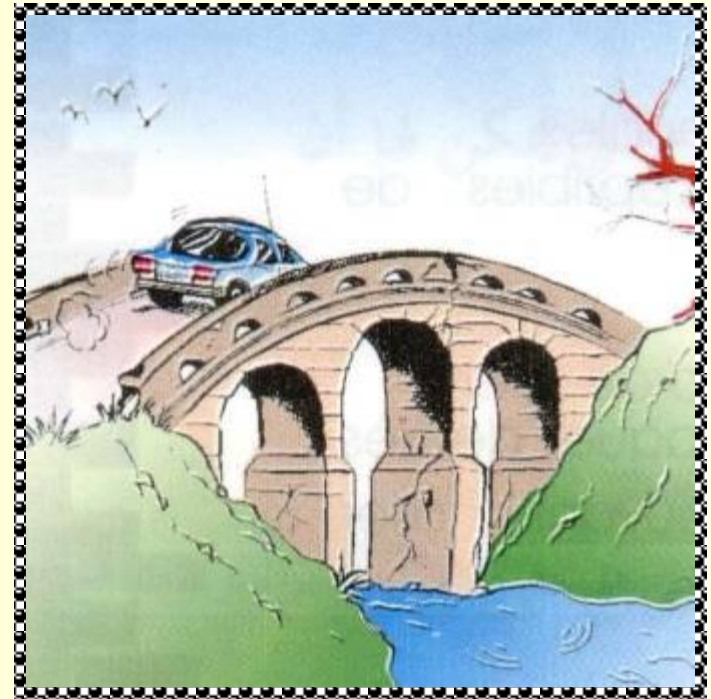


Do not use elevators during an earthquake or after it- you may become stuck in it.

During An Earthquake



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X

During An Earthquake

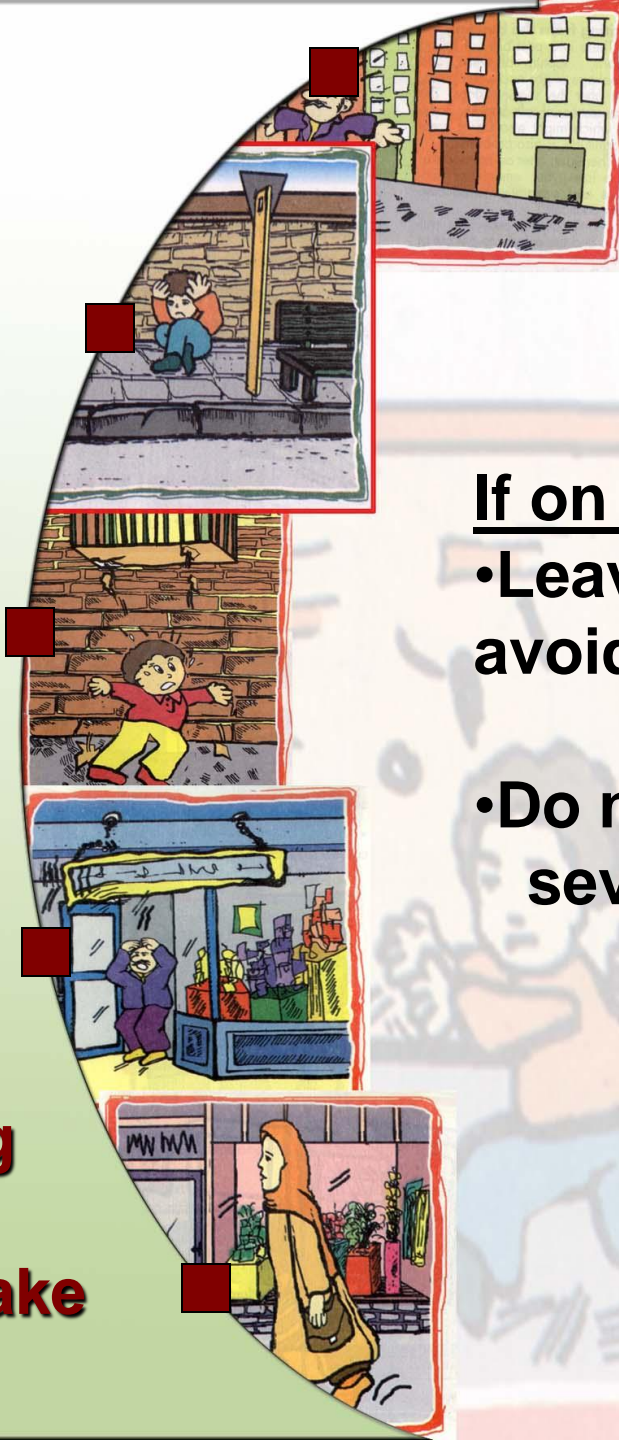


If in a moving vehicle

- Stop the vehicle and stay inside
- Once the earthquake stops, proceed with caution and avoid power lines.

Don't panic and don't leave your area. If you are inside, stay inside and if you are outside, stay outside until the earthquake stops. Earthquakes usually only last less than a minute.

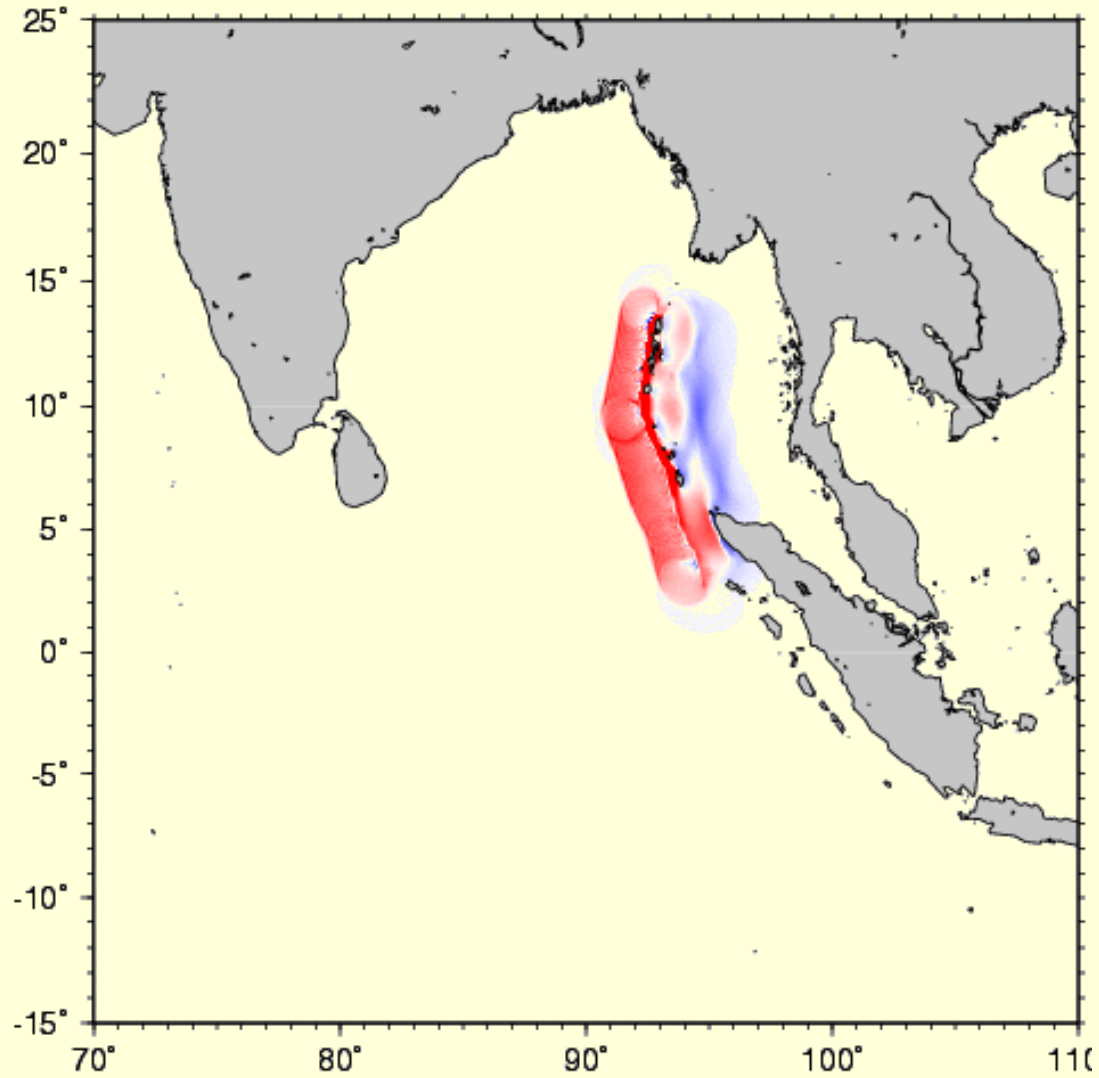
During An Earthquake



If on the beach:

- Leave immediately in order to avoid a Tsunami.
- Do not return to the beach for several hours.



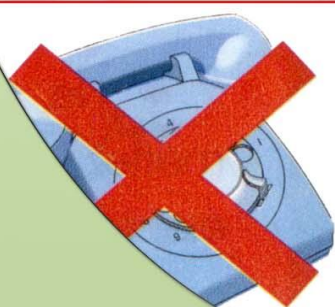
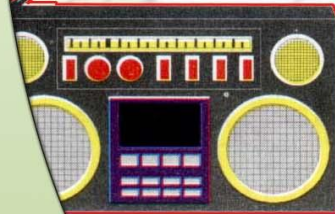




After An Earthquake

After

- Be prepared for aftershocks: smaller quakes after the initial shock that can cause additional damage and injury.
- Aftershocks can occur within hours, days or even weeks after the initial quake.
- Check for fire and take immediate action if a fire is found.



After An Earthquake

After

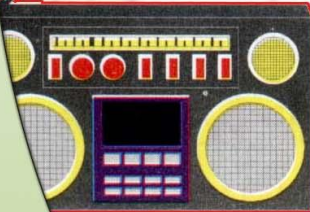
- Give first aid where appropriate. Do not move seriously injured persons unless they are in immediate danger.
- Call the emergency and ambulance number at 101 if needed.
- If you can, help your neighbors who may need special assistance such as infants, the elderly and the disabled.



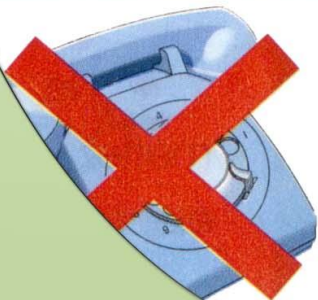
After An Earthquake

After

- Turn off the gas. Don't check for gas leaks with a flame, open windows instead.
- Turn off electrical power if electrical appliances are smoking.
- Stay out of damaged buildings and listen to the instructions and advice given to you by the authorities and medical personnel.



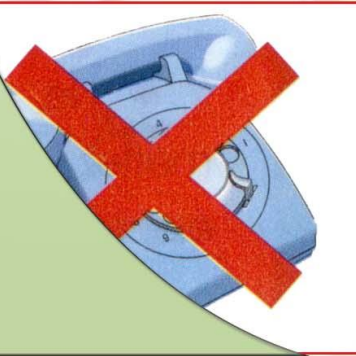
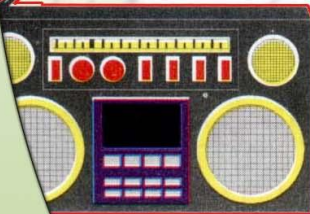
**After
An
Earthquake**



For your safety after an earthquake If still indoors:

- To avoid an explosion due to a gas leak:
 - * Do not light a fire
 - * Do not turn on any sort of electric switch (including a cellular phone).



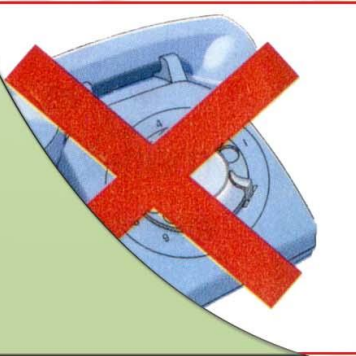
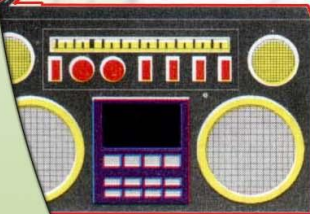


**After
An
Earthquake**

For your safety after an earthquake: If still indoors

- Turn off the gas valves and the apartment's main electricity panel.

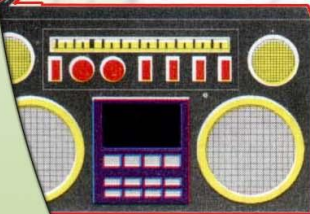




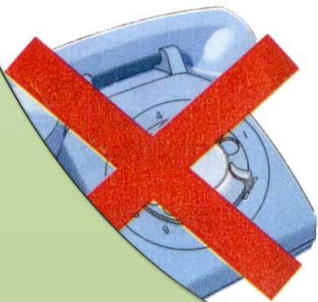
**After
An
Earthquake**

**For your safety after an earthquake:
If still indoors**

- **Exit the building and remain outdoors, away from buildings.**
- **Whenever an evacuation occurs, always take your emergency kit with you.**



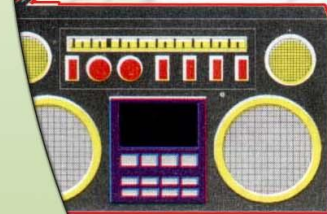
**After
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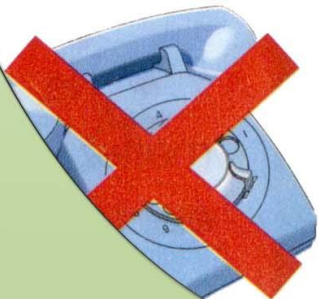
After

- Only use the telephone for emergency calls and for reporting injuries or any civil disobedience.





**After
An
Earthquake**



After

- Listen to the radio for emergency bulletins and for instructions and advice.



THANKS

- www.najah.edu
- Scientific Centers
- Earth Sciences and seismic Eng. Center



شكراً لحسن اصغائكم

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