

About natural disasters that occur in Osaka City



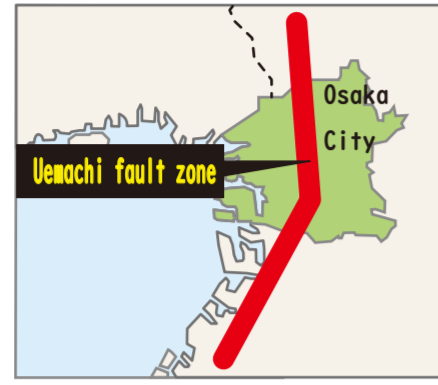
《Earthquakes》

Japan has so many earthquakes that it is called an earthquake country. Let's learn about the earthquakes that could cause great damage to Osaka City.

① Uemachi fault zone earthquake

What is the Uemachi fault zone earthquake?

The Uemachi fault zone exists between Abeno Ward and Nishinari Ward. The earthquake that occurs when this fault zone is displaced is the Uemachi fault zone earthquake. An earthquake intensity of 6 or higher is expected in this earthquake, and a violent vertical shake that lasts for a few tens of seconds.



② An earthquake with Nankai Trough as the epicenter.

What is a Nankai Trough Earthquake?

This earthquake occurs every 90 to 150 years, and when the Tokai, Tonankai, and Nankai earthquakes occur at the same time, it is expected that an earthquake intensity of 6 or higher will occur in Nishinari Ward and a large lateral vibration will continue for about 3 minutes.

The distinctive feature of this earthquake is that a tsunami may occur. If it occurs, 67% of Nishinari Ward is expected to be flooded.

Tremors caused by an earthquake and the damage they cause. The estimated flood caused by the tsunami is shown on the back of the map.

Intensity	Damage
Intensity 5 (lower)	<ul style="list-style-type: none"> Most people become frightened and want to hold on to something. Objects on shelves may fall.
Intensity 5 (upper)	<ul style="list-style-type: none"> It is hard to walk without holding onto something. Unsecured furniture may topple over.
Intensity 6 (lower)	<ul style="list-style-type: none"> It is difficult to stand. Wall tiles and window glass may shatter and fall.
Intensity 6 (upper)	<ul style="list-style-type: none"> You cannot move without crawling. You may be thrown about. Low earthquake-resistant wooden buildings that tilt or collapse will increase.
Intensity 7	<ul style="list-style-type: none"> Sometimes there are even wooden buildings with strong earthquake resistance that tilt. Low earthquake-resistant concrete buildings that collapse will increase.

Be prepared for disasters

◎ Emergency items to take with you

Basic items ※As a standard, ration for two adults			
◆Emergency bag	1	◆Dry bread (110g)	2 pieces
◆Drinking water (500 ml)	6 bottles	◆Flashlights	2
◆Portable radio	1	◆Lighters	2
◆Knife	1	◆Work gloves	2 pairs
◆Rope (5m ~)	1	◆Blankets	2
◆Portable toilet	2 ~	◆Towels	4 ~
◆Plastic bags	10	◆Toilet paper	1 roll
◆Wet tissues	2 packs	◆Sanitary items	Appropriate amount
◆Duct tape	1	◆Marker pen(Oil based)	1
◆Leisure sheet	1	◆First aid bag※	1

※First aid bag contents Thermometer, Mask, Disinfectant (1 bottle)
Absorbent cotton (appropriate amount), Gauze (2 pieces), Adhesive plaster (1 box)
Bandage (2 rolls), triangle bandage(2 pieces), Common medicine and medicine for chronic diseases

Consider preparations according to individual and family situations

Essentials/Valuables	Baby supplies	Goods for the elderly
◆Car or house key	◆Powdered milk◆Baby bottle	◆Diapers
◆Eyeglasses/contact lens	◆Disposable diapers	◆Eyeglasses
Prepare by having a copy for the following	◆Stroller◆Baby Food	◆Nursing supplies
◆Driving License	◆Mother and child handbook	◆Medicine for chronic disease
◆Passport	◆Bath towel	
◆Health insurance card	◆Toys	
◆Bankbook	◆Change of clothes	



It is hard to respond calmly when a large earthquake occurs. In order to respond calmly when a disaster occurs, remember a set of actions.

Protect your life

- ◎ Be calm and protect yourself.
- ◎ Open the door to secure an exit.

Protect your family

- ◎ Check your family's safety.
- ◎ Check for sources of fire.
- ◎ In order to protect your feet, wear shoes or slippers.
- ◎ Keep necessary things at hand and be wary of aftershocks!

Evacuation preparation

- ◎ Turn off the electric breaker and main gas valve.
- ◎ Evacuate to an evacuation shelter if there is a risk of the house collapsing.

An earthquake occurred

A tsunami occurred

1-5 minutes

5-10 minutes

1-5 minutes

5-10 minutes

1-5 minutes

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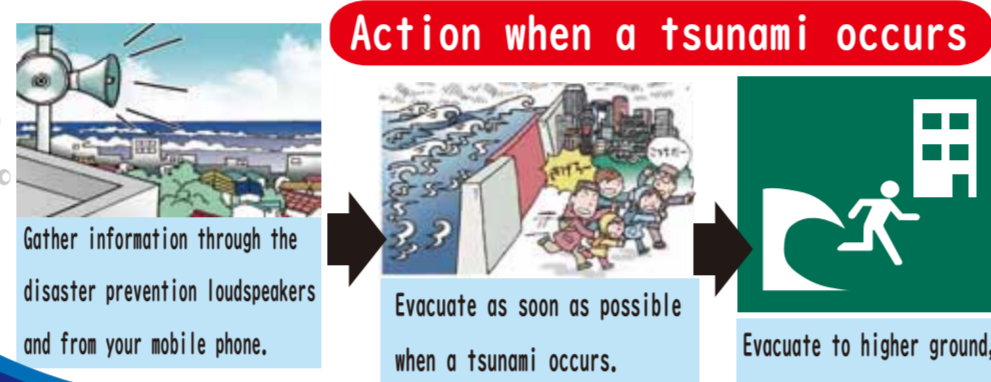
1-5 minutes

5-10 minutes

1-5 minutes

5-10 minutes

Action when a tsunami occurs



Features of tsunami

- Fast and large
- Comes repeatedly
- A tsunami goes up the river
- There may not be a back wash.

Protect yourself from tsunamis

- ◎ Do not judge the intensity of the earthquake yourself!
- ◎ Stay away from coasts and rivers.
- ◎ Do not use cars when you evacuate!
- ◎ Escape "faster" and "higher".

The estimated time for a tsunami to reach Osaka City is about 110 minutes. Be calm and take action!

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《Series on Wind and Water Damage》

Typhoons and torrential rains that cause great damage Many typhoons approach and land in Japan from July to October bringing strong winds and heavy rains over a wide area for a long period of time.

Always be prepared

- ◎ Know just how much the area where you live will be flooded.
- ◎ Know the dangerous areas around you, such as low-lying areas.
- ◎ Decide on which evacuation center to go to and check your evacuation route.

You can see disaster prevention information on the Nishinari Ward website.



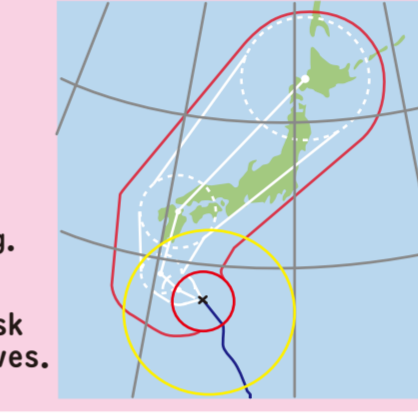
When the winds are strong

When outdoors
Roof tiles or signs may be blown away and trees on the street may fall over due to strong winds. Evacuate to a sturdy building.

When indoors
Flying objects may break windows and there is a danger that the shards may be blown in. Stay away from windows while the winds are still strong.

When by the seashore
Move away from sea shore immediately. There is a risk you may fall into the sea and get caught in high waves. There is also a risk of high tide.

Reference: Typhoon



When there is heavy rain

When outdoors
If it starts flooding, evacuate to a nearby 3-storey or taller building.

When driving a car
Refrain from driving since visibility may be poor and the steering and brakes may malfunction. Furthermore, avoid going through places where water accumulate.

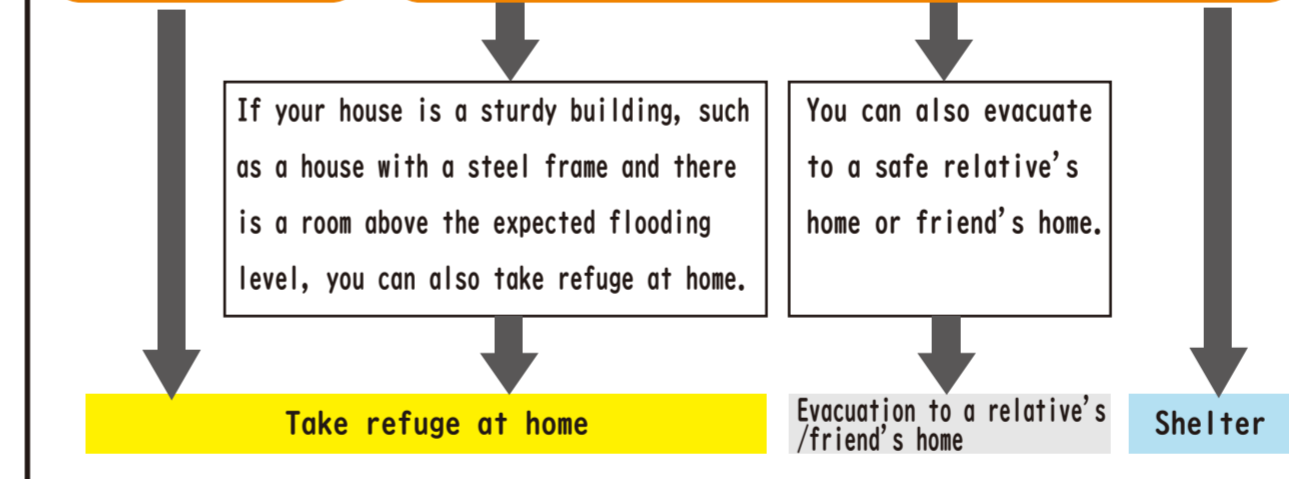
When by the river
Stay away from rivers as there is a risk of a sudden rise in water level due to an upstream heavy rainfall.

Prepare for a disaster that would occur during the Novel Coronavirus calamity

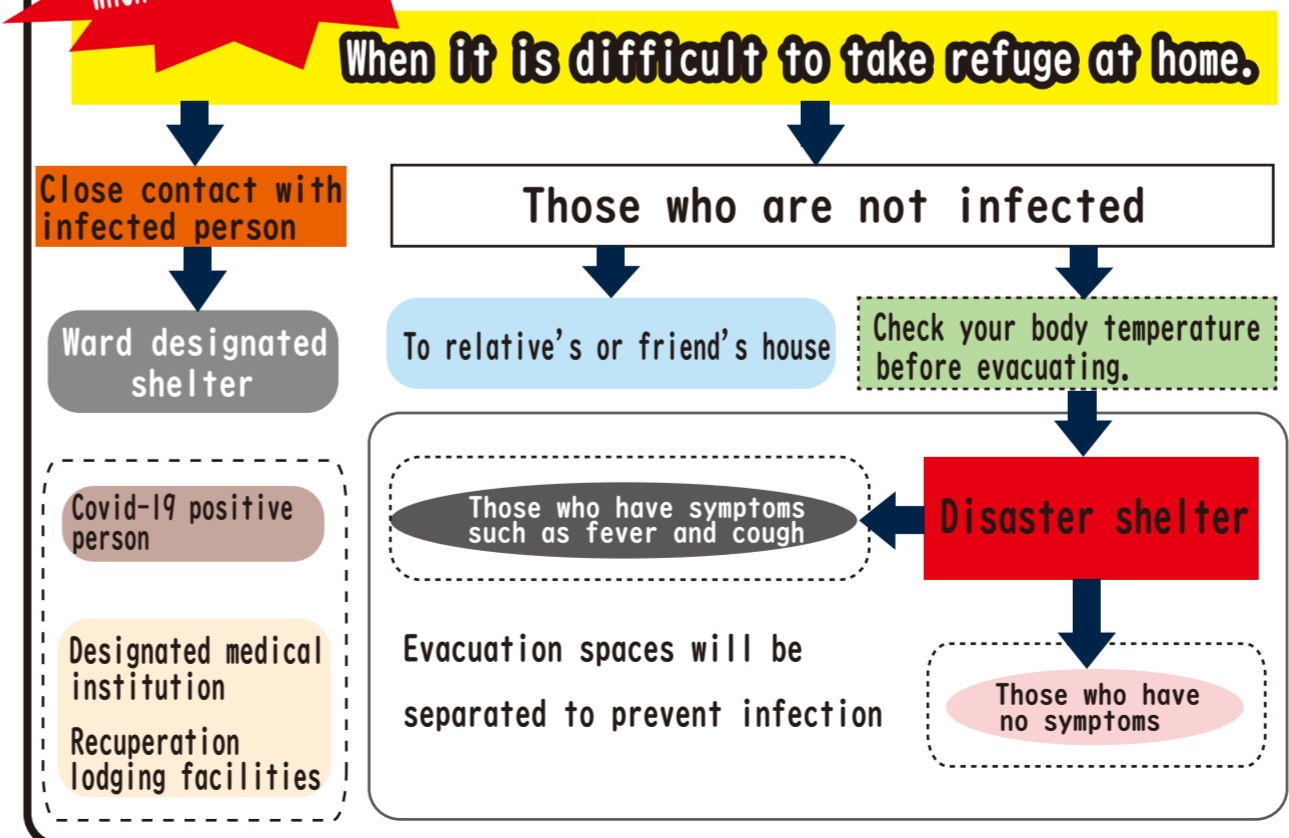
What to do now

Check the disaster risk of the area where your house is. [Disaster prevention map, hazard map, etc.]

(Disaster prevention materials are distributed at Window 73 on the 7th floor of Nishinari Ward Office)



In principle "Take refuge at home!"



Wind and rain strength

Wind strength and estimated damages Rain strength and estimated damages

Average wind speed (m/sec) Forecast Terminology	Estimated damages	Levels of precipitation per hour (mm) Forecast Terminology	Estimated damages
10 or more and less than 15 Slightly strong winds	People cannot put up umbrellas.	10 or more and less than 30 Slightly strong rain	It is necessary to be wary when it lasts for a long time.
15 or more and less than 20 Strong winds	People cannot walk against the wind.	20 or more and less than 30 Strong rain	Water may overflow from gutters.
20 or more and less than 25 Very Strong winds	It has become dangerous to continue driving a vehicle.	30 or more and less than 50 Heavy rain	Water may overflow from manholes.
25 or more and less than 30 Very Strong winds	Trees begin to topple and roof tiles begin to be blown away.	50 or more and less than 80 Very heavy rain	Rain water may flow into the underground shopping center.
30 or more Violent rain	Roofs are blown away and wooden houses start to break up.	80 or more Violent rain	There is a strong risk of a large-scale disaster.

How evacuation information is reported in the event of a flood

The timing of evacuation will be announced in accordance with the alert level.

Alert level	When a disaster occurs
5	A disaster has already occurred. Take the best action to save your life.
4	Everyone evacuate! Evacuate immediately If it is dangerous to move to the evacuation site, evacuate to safe places nearby or safer places in your house.
3	Elderly people evacuate! Other people, prepare for evacuation People who take time to evacuate (the elderly, disabled, and infants, etc.) and their supporters, evacuate. Other people, prepare for evacuation.
2	Check how you are going to evacuate. In preparation for evacuation, check how you are going to move using the hazard map, etc.
1	Raise your mental attitude Raise your mental attitude about disasters.

※ Be prepared beforehand to evacuate at any time.

For evacuation life

● Knowledge of evacuees

Register

Fill out the names of your family and address at the reception table. Those who need assistance or medical care should say so.

Be considerate to the people around you

Be thoughtful and help each other when in trouble.

About eating and drinking

Food and drink will be distributed at the shelters and an emergency water supply base will be established.

Pregelatinized rice and dried bread will be distributed at the shelters

There are some people who have difficulty in taking refuge in their homes or coming to shelters, so let's help each other.

Let's decide and observe the rules of living and the roles of each person.

Evacuation centers are operated mainly for people living in the area. Decide the roles of each person and follow the rules decided by everyone. Let's live together based on "Let's work for our own".

About pets

If you bring your pet to a shelter, tie it to your leash, pet supplies or cage and be sure to clean up the feces and urine.

Prevent food poisoning and infectious diseases

After the disaster, the sanitary environment deteriorates and infectious diseases occur.

When you eat or cook, wash your hands or clean your hands with an antiseptic solution.