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## Thailand reports new, deadlier mpox variant – first in Asia

### Description

New technology being tested in Japan could help reduce the impact of natural disasters. An early warning system called the earthquake early warning (EEW) system was put in place in Japan to provide alerts to people before an earthquake strikes.

The system works by detecting the initial tremors of an earthquake, which can travel faster than the more destructive waves that follow. With this early detection, warnings can be sent out to people in affected areas to give them a few precious seconds to prepare before the shaking begins.

In a recent test, the system successfully sent out alerts to mobile phones, TVs, and even bullet trains. This allowed people to take cover, stop trains, and shut down factories before the shaking reached them.

The EEW system was first introduced in Japan in 2007 and has since helped save lives and reduce damage from earthquakes. Its success has led other countries, like the United States and Mexico, to consider implementing similar systems.

By using technology to provide advance warning of earthquakes, communities can better prepare and respond to these natural disasters, ultimately saving lives and reducing the impact on infrastructure.

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### Vocabulary List:

1. **Tremors** /'trem.ərz/ (noun): Small or slight shaking movements often due to seismic activity.
2. **Destructive** /dɪ'strʌk.tɪv/ (adjective): Causing great and irreparable damage.
3. **Infrastructure** /'ɪn.frə'strʌk.tʃər/ (noun): The basic physical and organizational structures needed for the operation of a society.
4. **Alerts** /ə'lɜ:ts/ (noun): Notifications or warnings about a potential danger or problem.
5. **Implementing** /'ɪmplɪ.məntɪŋ/ (verb): Putting a decision plan or agreement into effect.
6. **Communities** /kə'mju:nɪtiz/ (noun): Groups of people living in the same place or having a particular characteristic in common.

### Comprehension Questions



## Multiple Choice

1. What is the name of the early warning system being tested in Japan?  
Option: Earthquake Early Alert (EEA) system  
Option: Tsunami Detection System  
Option: Earthquake Early Warning (EEW) system  
Option: Natural Disaster Preparedness Network
2. How does the EEW system work?  
Option: By predicting the exact time an earthquake will strike  
Option: By detecting the initial tremors of an earthquake  
Option: By monitoring volcanic activity  
Option: By analyzing seismic data after the earthquake occurs
3. When was the EEW system first introduced in Japan?  
Option: 2002  
Option: 2010  
Option: 2007  
Option: 2015
4. Which technology is used to send alerts in the EEW system?  
Option: Radio broadcasts  
Option: Satellite signals  
Option: Mobile phones TVs and bullet trains  
Option: Smoke signals
5. What is the main goal of implementing the EEW system in Japan?  
Option: To predict the exact magnitude of earthquakes  
Option: To provide advance warnings to people  
Option: To prevent earthquakes from happening  
Option: To create artificial earthquakes for research purposes
6. Which countries have shown interest in implementing similar systems to the EEW system?  
Option: Brazil and Russia  
Option: Canada and Australia  
Option: United States and Mexico  
Option: China and India



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## Answer

**Multiple Choice:** 1. Earthquake Early Warning (EEW) system 2. By detecting the initial tremors of an earthquake 3. 2007 4. Mobile phones TVs and bullet trains 5. To provide advance warnings to people 6. United States and Mexico

## Vocabulary quizzes

### Multiple Choice ( Select the Correct answer for each question. )

1. What is the process of moving goods from one place to another?  
Option: Cargo  
Option: Supplies  
Option: Migration  
Option: Efficiently
2. What are substances that provide nourishment essential for growth and the maintenance of life?  
Option: Cholesterol  
Option: Regulate  
Option: Nutrients  
Option: Devastating
3. What is a day or period of celebration set aside for special religious or cultural observances?  
Option: Oversized  
Option: Surge  
Option: Festival  
Option: Devastating
4. Which term refers to groups of people living in the same place or having a particular characteristic in common?  
Option: Reinforces  
Option: Communities  
Option: Tremors  
Option: Implementing
5. Who is a person who seeks to promote the welfare of others typically through donations of money resources or time?  
Option: Awareness  
Option: Generous  
Option: Philanthropist



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Option: Contribute

6. Which term describes a condition that persists over a long period of time?

Option: Destructive

Option: Infrastructure

Option: Chronic

Option: Alerts

7. What is the act of putting a decision plan or course of action into effect?

Option: Extinguish

Option: Devastating

Option: Implementing

Option: Awareness

8. What term means to represent or be a symbol of something?

Option: Migration

Option: Symbolizes

Option: Embrace

Option: Celebrations

9. What does it mean to control or maintain the rate or speed of a process?

Option: Alerts

Option: Regulate

Option: Reinforces

Option: Servings

10. What term is used to describe something that is larger than standard size?

Option: Oversized

Option: Surge

Option: Festival

Option: Tradition

**Gap-Fill ( Fill in the blanks with the correct word from the vocabulary list. )**

11. A sudden \_\_\_\_\_ in demand for a product can lead to shortages.

12. During special occasions people come together for \_\_\_\_\_ and merriment.

13. Proper \_\_\_\_\_ is essential for the smooth running of a city.

14. Natural disasters can have a \_\_\_\_\_ impact on communities.



15. Each individual can \_\_\_\_\_ to making the world a better place.
16. Earthquakes are often preceded by small \_\_\_\_\_.
17. Firefighters work tirelessly to \_\_\_\_\_ fires and protect lives.
18. Educational campaigns aim to raise \_\_\_\_\_ about important issues.
19. She is known for her \_\_\_\_\_ donations to various charities.
20. Exercise and a healthy diet can help \_\_\_\_\_ cholesterol levels.

**Matching Sentences ( Match each definition to the correct word from the vocabulary list. )**

21. The movement of birds in the winter to warmer regions is an example of animal .
22. In order to complete the project on time it is essential to manage time and resources .
23. The community decided to welcome the new members warmly and make them feel at home.
24. Positive feedback from teachers often _____ students' confidence in their abilities.
25. The weather app sends out alerts about approaching storms or severe conditions.
26. It is important to control portion sizes and eat balanced for a healthy diet.
27. The shipping company specializes in handling large cargo.
28. The earthquake had a impact on the region causing extensive damage.
29. The campaign aimed to raise awareness about the importance of mental health.
30. The city hosts a grand festival for its annual cultural festival attracting visitors from around the world.

## Answer

**Multiple Choice:** 1. Cargo 2. Nutrients 3. Festival 4. Communities 5. Philanthropist 6. Chronic 7. Implementing 8. Symbolizes 9. Regulate 10. Oversized

**Gap-Fill:** 11. Surge 12. Celebrations 13. Infrastructure 14. Devastating 15. Contribute 16. Tremors 17. Extinguish 18. Awareness 19. Generous 20. Regulate

**Matching sentence:** 1. Migration 2. Efficiently 3. Embrace 4. Reinforces 5. Alerts 6. Servings 7. Oversized 8. Devastating



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9. Awareness 10. Celebrations

**CATEGORY**

1. Health - LEVEL3

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