

# UNDERSTANDING DISASTER RISK

Disaster risk is calculated by understanding what hazards are likely to occur in an area, assessing where communities could be negatively impacted by a hazard, and identifying a range of human factors that impact people's ability to prepare for, respond to and recover from a disaster. By understanding and addressing their disaster risks, communities equipped with knowledge and resources have a higher capacity to protect themselves and build their resilience from disasters.

## Instructions

### Step 1

- Collect an empty egg carton to represent exposure, and two eggs and two ping-pong balls to represent vulnerability.

### Step 2

- Place one egg and one ping-pong ball at the edge of the egg carton and shake the carton to simulate an earthquake.

### Step 3

- Discuss what happened to the egg and ping-pong ball in the earthquake. They were both exposed to the same hazard, but one broke due to vulnerability and the other was able to bounce back.

### Step 4

- Place the remaining egg and ping-pong ball in the middle of the egg carton and shake the carton to simulate an earthquake.

### Step 5

- Discuss what happened to the egg and ping-pong ball under these conditions. With less exposure to the dangers of the earthquake because of the protection in the middle of the carton, even the vulnerable egg was less impacted.

## Disaster Risk Reduction

### Time

30 minutes

### Difficulty

Medium

### Resources

Egg carton, 2 eggs, 2 ping-pong balls



For more DRR activities, visit  
[www.preparecenter.org/TeenPrepKit](http://www.preparecenter.org/TeenPrepKit)