

Housekeeping

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- If you experience technical difficulties during the webinar, please contact the REMS Technical Assistance Center (TA Center) at info@remstacenter.org or 1-855-781-REMS (7367). You may also request technical assistance using the Q&A Tool. These questions are viewable to the webinar moderator only.

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Questions & Answers

Please pose any questions using the Q&A Tool on the right side of your computer screen.

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Agenda

1. Introduction

- 2. Lessening the Potential Physical Impact of an Earthquake
- 3. Encouraging Personal Preparedness at Home
- 4. Identifying Resource Needs
- 5. Q&A Session

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Causes of Earthquakes

An earthquake is caused by the sudden slip on a fault and the resulting ground shaking and radiated seismic energy, volcanic or magmatic activity, or other sudden stress changes in the earth.

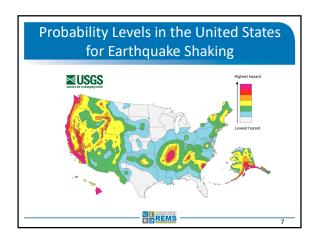


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Cascading/Secondary Effects

- Additional hazards, called "cascading" or "secondary" effects, associated with an earthquake can also impact people.
- Cascading effects can include a:
 - Tsunami;
 - Seiche (slosh from a closed body of water);
 - Landslide;
 - $\ {\it Lique faction};$
 - Building fire; and
 - Chemical spill.

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Impact of Earthquakes

Earthquakes are dangerous in that they:

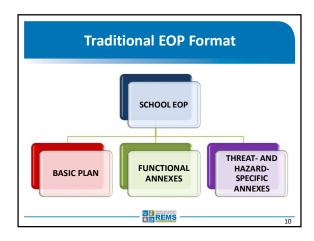
- Provide little or no warning;
- Can cause extensive injuries, deaths, and damage to entire regions, including critical infrastructure and schools; and

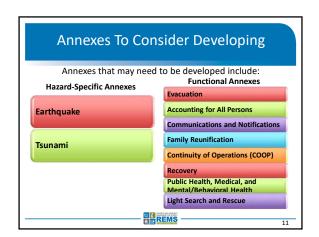


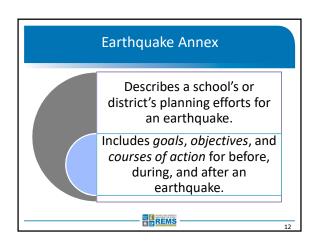
Are followed by aftershocks.

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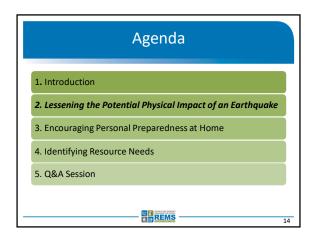
Connection to the Six-Step Planning Process STEP 2 STEP 3 STEP 3 STEP 3 STEP 3 STEP 4 STEP 5 STEP 5 STEP 6 S







Earthquake Annex Considerations Schools and districts should consider: 1. Lessening the potential physical impact of an earthquake 2. Encouraging personal preparedness at home 3. Identifying resource needs



Lessen the Impact	
1. Non-structural mitigation	
2. Training	
3. Exercises	
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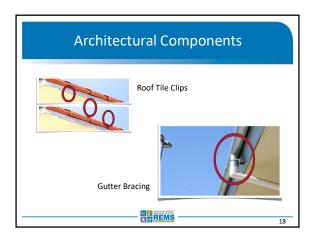
Mitigation Activities

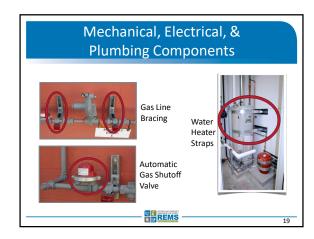
- 1. School location
- 2. Structural mitigation:
 - Focus on building components that support the building
- 3. Non-structural mitigation:
 - Focus on portions of the building not connected to the superstructure

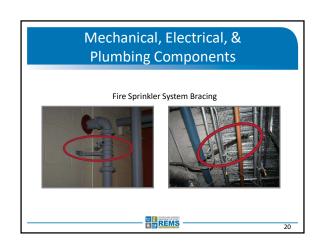


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1. Non-Structural Mitigation Architectural components • Partitions Mechanical • Storage racks Ceilings equipment Bookcases Fire protection piping Roof tiles Shelving • Stairways • Computer • Ductwork Freestanding walls or fences equipment • Elevators REMS



















Training (continued) • Teen Community Emergency Response Team (CERT) training • National Incident Management System (NIMS) and the Incident Command System (ICS)

3. Exercises

Conduct exercises

- Include seminars, tabletop exercises, drills, functional exercises, and full-scale exercises.
- In a drill:
 - Identify where students and staff would take cover in rooms such as classrooms, the dining hall, and gymnasium; and
 - Practice at different times of the day.
- Coordinate and conduct training and exercises with local emergency planning efforts when possible, as earthquakes can impact a whole community or region.



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Great ShakeOut Earthquake Drills

- Annual opportunity to practice what to do during an earthquake, along with millions of others.
- Schools can register to be counted in the Great ShakeOut Earthquake Drills, get email updates, and more.









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Promote Preparedness at Home



EarthquakeCountry.org

- Is the website of the Earthquake Country Alliance (ECA), which created the first *Great* ShakeOut Earthquake Drill in 2008.
- Provides booklets, videos, games, and other resources
- Describes how to prepare, survive, and recover by following the Seven Steps to Earthquake Safety.

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ECA's Seven Steps to Earthquake Safety

- Each step is a set of suggested actions to improve personal and family safety at home before, during, and after earthquakes.
- The steps can be incorporated into the six-step planning process for developing and maintaining a school EOP for a range of threats and hazards.

EarthquakeCountry.org/sevensteps



E	CA's Sever	n Steps to	Earthqual	ke Safety
	1. Secure Your Space	2. Plan To Be Safe	3. Organize Disaster Supplies	4. Minimize Financial Hardship
BEFORE		888 		S S
	5. Drop, Cover, and Hold On	6. Improve Safety		connect Restore
DURING	© ?		AFTER	Fi
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Step 1: Secure Your Space • Identify hazards. • Secure moveable items. • Reduce injuries and damage. EarthquakeCountry.org/step1

Step 2: Plan To Be Safe • Create a disaster plan. • Decide how to communicate in an emergency. EarthquakeCountry.org/step2

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Step 3: Organize Disaster Supplies - At home, work, and in your car - Copies of prescriptions, extra glasses, etc. - Essentials for 3 days, ideally 2 weeks - EarthquakeCountry.org/step3

Step 4: Minimize Financial Hardship

- Organize important documents.
- Strengthen your property.
- Consider insurance.



EarthquakeCountry.org/step4

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Step 5: Drop, Cover, and Hold On

- When the earth shakes
- In most situations (see link below)
- Protection from falling objects



EarthquakeCountry.org/step5

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Why Drop, Cover, and Hold On?

- Get down before being thrown to the ground.
- Buildings *rarely* collapse in the United States.
- Provides protection from falling items ... including structural elements.



Classroom in Calexico, CA April 2010 (Magnitude 7.2)

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Drop! Drop to the ground where you are. Drop before the earthquake can knock you down. Being low protects you from flying and falling objects.

Cover! (Inside)



• Stay low to the ground, and cover head/neck with hands and arms.



• If a sturdy desk or table is nearby: crawl under it for additional shelter.



• If no nearby shelter: crawl next to an interior wall or low furniture.

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Cover! (Special Situations)



• If in bed: lay face down, and cover your head with a pillow.



 If in a theater/auditorium: get down between chairs, or bend over and cover head and neck with your arms.

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Cover! (Outside)



- Stay outside, and get down on the ground.
- Crawl away from anything that can fall.
- Cover your head/neck with your hands and arms to protect yourself from flying debris.

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Hold On!



- If under a desk or table:
 - Hold On to your shelter; and
 - Be ready to move with it.
- Other situations:
 - Hold On to whatever can provide stability or shelter.
- Always keep head/neck covered with at least one hand/arm.

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Adapt to Your Situation

- If you can't get back up, don't get down. If seated, bend over and cover head/neck with hands and arms.
- Know what you need so you can instruct others how to assist you.
- Practice is key.
- EarthquakeCountry.org/ disability REMS

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Out-of-Date and Dangerous Advice

- Myth: In an earthquake, get in a doorway.
 Doorways do not protect you from falling items.
 You cannot hold yourself up in strong shaking.
 There may not be enough doors for people in a room.
- Myth: In an earthquake, crouch next to big furniture and not
 - under cover.

 This myth is based on rare situations.

 - Most injuries occur from falling items.
 When available, getting under something provides the best shelter.



For advice about what to do in many situations, visit <u>EarthquakeCountry.org/step5</u>



After Shaking Stops ...



- Wait a minute after shaking stops, in case objects continue to fall.
- Look for hazards before you move:
 - Above and below you; and
 - Behind, around, and ahead of you.
- Expect aftershocks—be prepared to drop again.
- Follow your emergency plan.

(Magnitude 6.7)

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Step 6: Improve Safety

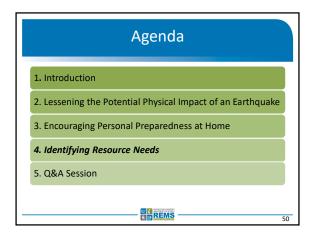
- Evacuate if necessary.
- Help the injured.
- Prevent further injuries or damage.

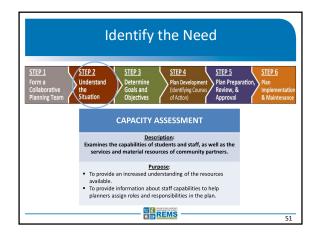


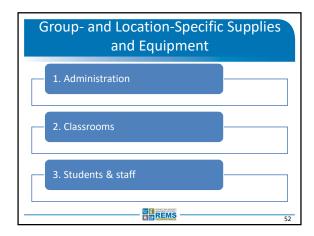
EarthquakeCountry.org/step6











Administration Supplies

Supplies are used by leadership to:

- Help coordinate a response;
- Ensure the safety of all students, teachers, staff, and visitors; and
- Communicate and coordinate with emergency responders.

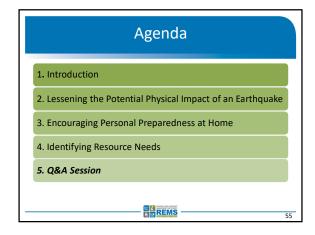
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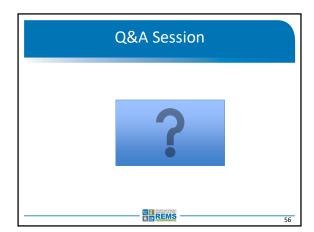
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Classroom and Student & Staff Supplies

- Classroom supplies help inform teachers, classroom staff, and students how to respond to a variety of hazards and threats and meet basic needs.
- Student and staff supplies can help individuals stay warm, fed, hydrated, and comfortable.

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TA Center Earthquake Resources

- Training by Request (TBR)
- Podcast on earthquake exercises for schools
- Webinars on Teen CERT and meeting the needs of those with disabilities/access and functional needs (AFN)
- Information on the Great ShakeOut Earthquake Drills, NIMS, and ICS
- Tool Box
- · Community of Practice (CoP)



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Technical Assistance

Contact:

info@remstacenter.org

1-855-781-REMS (7367)

For topics, such as:

- Planning for an active shooter incident at schools;
- Creating a plan to address weapons of mass destruction on a university campus;
- Expanding a school Teen CERT program; and
- Training on how to clean schools to prevent infectious disease outbreaks.

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Further Information Further Information Figure Information Phone: (855) 781-7367 (REMS) Figure Info@remstacenter.org Phone: (855) 781-7367 (REMS) Figure Info@remstacenter.org Figure Info@remstacenter.org Get the Guide Join our Community of Practice! Access Virtual Trainings Figure Info@remstacenter.org Request an On-Site Trainings Figure Info@remstacenter.org