



School Earthquake Safety Education Present and Future

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Strategy for Earthquake Risk Reduction Program

- ❖ Increasing public awareness and promoting a collective prevention and safety culture.
- ❖ Increasing the scientific and technical knowledge required for earthquake risk mitigation.
- ❖ Reducing the risk of all type of structures and making sure that all structures are build safer by full implementation of building codes with "Zero Tolerance" for any type of violation.
- ❖ Improving the quality of city planning and management.
- ❖ Improving the disaster response, management and implementing an effective plans for post earthquake Recovery and reconstruction.

School Earthquake Safety

Why Students and Schools?

- ❖ Key component in risk reduction.
- ❖ High Capacity of Learning.
- ❖ Major role in the development; Transferring Knowledge and can act as safety messengers.
- ❖ Important institutions in forming the safety culture of a society.
- ❖ Schools and Students are the Future.

School Earthquake Safety

Through School Safety we could achieve :

- **Self-help:** Confidence building among people
- **Cooperation:** School Safety binds the community
- **Education:** Teaches and promote mitigation culture

Participatory approach of the community:
Before, During and After Disaster

School Earthquake Safety

IIEES Program and Achievements

To implement the School Safety achievements, IIEES Program Composed of:

1. Development and Implementation of a comprehensive **“Earthquake Awareness and Preparedness”** program in Schools.

- Educating children and youngsters about earthquake preparedness at all school levels by including materials in textbooks, films, conducting drill, exhibitions, drawing and writing competitions, posters, etc.
- Conducting annual national drill in schools on November 8th.
- Organizing annual art, painting and training exhibition.

2. **Promoting and Supporting the Safety of School Buildings**

School Earthquake Safety

Distribution of Iranian Students (2003-2004)

Educational Course	Urban	Rural	Total	State	Private
kindergarten	363704	75075	438779	404064	34715
Primary	3946457	2701460	6647917	6333533	314384
Secondary	3228060	1450504	4678564	4401046	277518
High school	2494566	535135	3029701	2805940	223761
Technical & Professional School	740,297	46,773	788,170	742,689	45,381
Pre-University	409833	26103	435936	380431	55505
Adult's students	505472	10012	515484	427362	88122
Total	11,689,389	4,845,062	16,534,451	15,495,065	1,039,386

Iran's Population (2006): 70,742,846

Population under 19: 25,736,247 (31.38%)

Number of Schools: 124,805

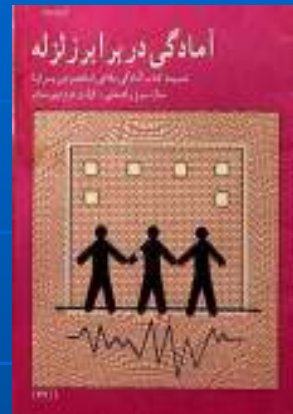
School's Earthquake Education Sample Textbooks



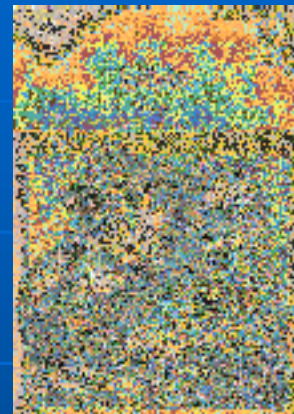
Science book



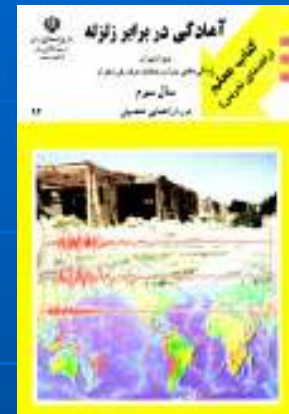
Earth Science



Earthquake Preparedness



Geography



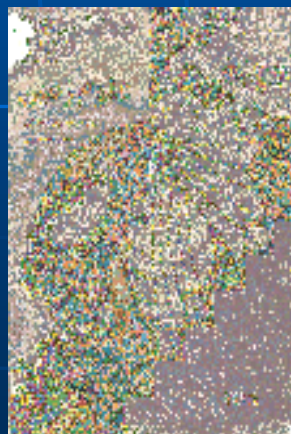
Teacher's Guidebook
Earthq. Preparedness



Science



Technology & Career



Earth Science



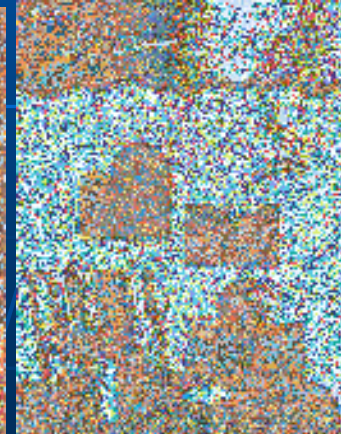
Building Materials



Construction Technology

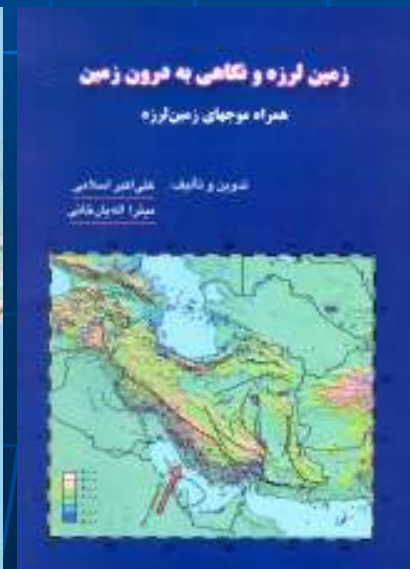


Social Studies



State Geography

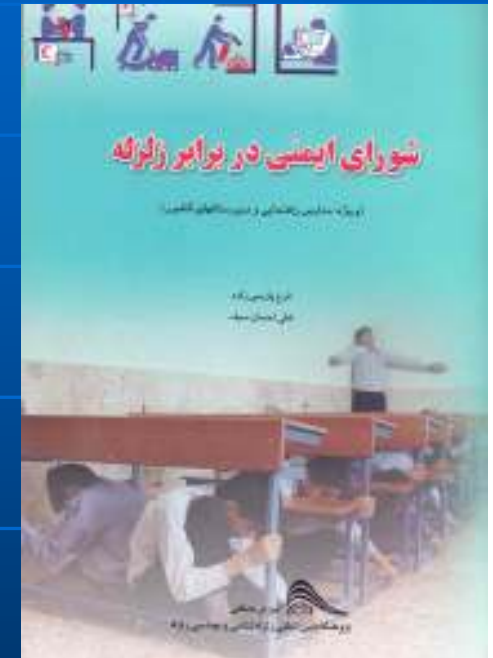
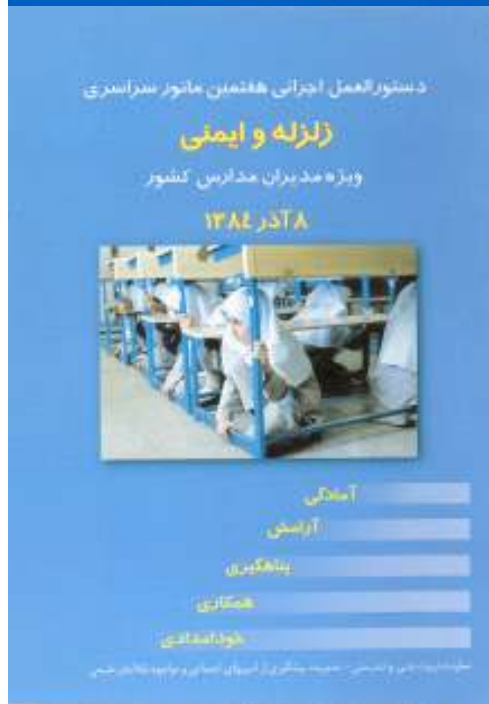
Informal Earthquake Educational Books (sample)



Poster "Earthquake Safety Measures in Schools"



Earthquake Preparedness Planning in Schools



Schools

Safety Council

Operational Teams

Support

Information

Search and
Rescue

First aid
and Relief

Fire
extinguishing

Recovery

“Earthquake and Safety” Drills



“Earthquake and Safety” Drills



School Drills

	School	Year	No. of Students	No. of Schools	Girls	Boys
Pilot Study	Primary	1996	1000	5	400	600
Pilot Study	High Schools	1997	-	3	-	-
Drill in Tehran	High Schools	1998	527,237	1,059	260,480	266,890
First National Drill	High Schools	1999	4,580,688	15,499	2,255,781	2,324,907
Second National Drill	Secondary and High Schools	2000	11,100,000	45,000	5,224,171	5,775,829
Third National Drill	Secondary and High Schools	2001	11,800,000	48,000	5,624,178	6,175,829
Fifth National Drill	All Schools	2003	16,591,225	120,000	7978101	8613124
Sixth National Drill	All Schools	2004	16,027,956	120,000	7730638	8297318
Seventh National Drill	All Schools	2005	15,264,349	140,815	7,391,739	7,872,610
Eighth National Drill	All Schools	2006	14,330,901	154,804	6,939,725	7,391,176



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Earthquake Safety Drawing, Essay, Poster, etc. Competitions

Essay Writing Competition for ages 12-18

- 1997 "Earthquake Reduction"
- 2000 "Earthquake and Safety"
- 2003 "Earthquake and it's Effects"

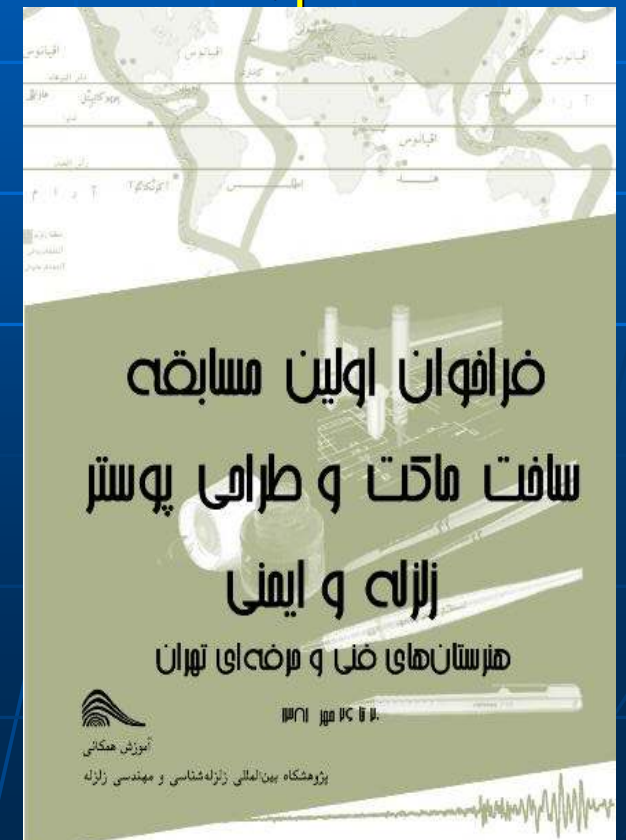
Drawing Competition



Drawing and Game Competition



Poster and Model Competition

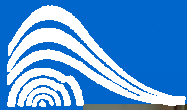


Face to Face Earthquake Education



Educational Workshops for Ages 6-18

- 1991 "Earthquake and Children"
- 1994 "Earthquake and Preparedness"
- 1997 "Earthquake and How to Reduce Hazard"
- 1999 "How to Reduce Earthquake Hazard"
- 2001 "Earthquake and Safety"
- 2003 "Earthquake and Learning"
- 2004 "Bam Earthquake and Needs for Education"
- 2005 "Education for Safety"
- 2006 "Education for Education"



IIIES



www.iiies.ac.ir/pubedu



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Continuous Educational Teacher training Program



Future Programs

Expanding Earthquake and Safety Exercises to the Kindergarten from Tehran to National Level

**Number of Kindergartens in
Tehran :2,024
Iran : 30,950**



IIEES



IIEES









Special Program for Deaf Students





Earthquake and Safety Program for Blind Students



Issues that had been raised in the workshop

- Assessment of the learning problems encountering deaf students;
- The role of teachers in earthquake education and awareness of deaf students before the earthquakes;
- Cooperation of parents and teachers in nonstructural safety of schools;
- Assessment of the role of parents and teachers in reducing the consequences of the earthquakes;
- Characteristics of a safe school for deaf students;
- Appropriate educational methods in "earthquakes and safety" for deaf students;
- Identifying the basic needs of the deaf children immediately after the earthquakes

New Initiative

- **Establishing a Virtual Community Program for School Safety**
- **Establishing a Multidisciplinary Forum to exchange knowledge about Earthquake and Safety in Schools**
- **Performing Regional School Earthquake Drill**



Guidelines on “Earthquakes and Safety” for Kindergarten Teachers



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