

1. THIS PROGRAM

1. Theme
Teacher education program on disaster education of schools
2. Purpose
Knowing and thinking about disaster education in some Asian countries
3. Times
This program is consist of 5 times. Every time consists of about 40 minutes.

CONTENTS

4. Contents
 - 1 Genealogy of disaster education in Japan
By Prof. Yoshiyasu Ida (University of Tsukuba)
 - 2 Education for disaster risk reduction in Japan
by Dr. Takashi Oda (Miyagi University of Education)
 - 3 Disaster education at schools in South Korea
by Prof. Eje Kim (Gyeongin National University of Education)
 - 4 Disaster education at schools in Taiwan
by Dr. Su-Min Shen (Taiwan Normal University)
 - 5 Disaster prevention at schools in Singapore
by Dr. AN Geok Chin Ivy (National Institute of Education)

CONTENTS OF THIS TIME

1. Disaster education in Japan
2. Transition of social studies textbooks as for disaster prevention in Japan
3. Education for disaster prevention in new curriculum which starts 2020
4. New national Curriculum in Japan
5. Geography in New National Curriculum in Japan
6. Transit of Textbook about disaster prevention in geography
7. Disaster education that spreads students' eyes to the world
8. Global education of disaster prevention
9. Summary

GENEALOGY OF DISASTER EDUCATION IN JAPAN

Yoshiyasu Ida (University of Tsukuba)

1. Disaster education in Japan

- There are many disasters such as earthquakes, volcanic eruption, typhoons, floods, heavy snow, heavy rains, and so in Japan.
- In school, disasters and blessings from nature such as volcanoes have taught in social studies, geography and so for long time.
- But contents for disasters has much changed from around 2011.

Teaching disasters and blessings → Learning disaster prevention

Why?

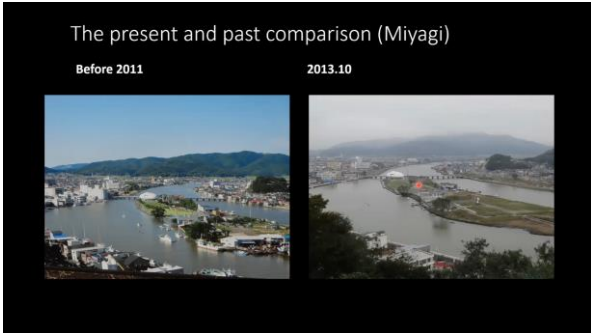
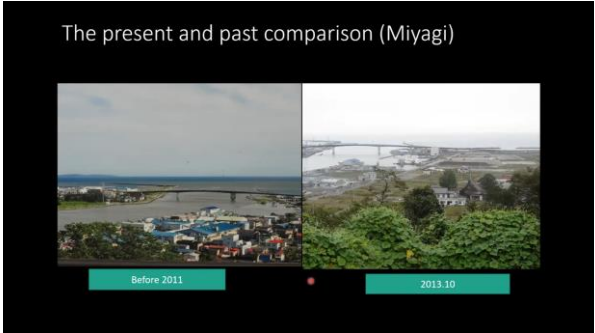
major disasters in Japan (2007-2016)

Year	Earthquake	Volcanic	Storm and flood damage
2007	7		5
2008	6		4
2009	3		3
2010	5		5
2011	16 (Great East Japan Earthquake)	1 *	3
2012	13		7
2013	11		13
2014	8	2	15
2015	13	5	10
2016	12	1	10

The Great East Japan Earthquake Disaster

- In March 2011, Japan experienced the Great East Japan Earthquake Disaster.
- approximately 18,000 fatalities of whom 90% were drowned by the tsunami.
- how to save people from a tsunami would become a major issue for future disaster prevention.
- In addition, the safety of nuclear power generating plants has come to be debated.
- Recovery has not in many areas in Iwate, Miyagi and Fukushima.





Geography textbook after 2011

After the Great East Japan Earthquake;
 It changed the way of thinking about disaster education. In other words, the Great East Japan Earthquake makes change the knowledge about disasters into actions to protect themselves from disasters-mainly Tsunami.

- The Great East Japan Earthquake disaster was introduced geography textbook in 2013.
- Publish was much fast. It reveals big shock in Japan.
- After 2015;
 Disaster prevention has more important in geography textbook.
 Students study not only knowledge for disasters but knowledge , method and action of protection from natural disasters
 ---from the view of personal, society and collaboration with other persons.

The change of textbook for natural disasters from 2013



2. Transition of social studies textbooks as for disaster prevention in Japan

Disaster prevention in National curriculum before 2020

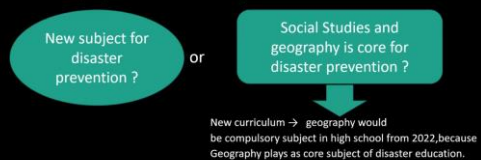
• Item for disaster prevention in National curriculum of social studies and geography

Year of national curriculum	Junior high school (G7-9)	High school (G10-12)
1977	Land use and environment conservation in Japan(sub-item)	Regional development and environment conservation(sub-item)
2008-2009	Natural environment(including disaster prevention)(subdivision-item)	Natural environment and disaster prevention (sub-item) (1p.explanation)
2017-2018	Natural environment(including disaster prevention)(subdivision-item)	Natural environment and disaster prevention (sub-item) (5p.explanation)

Note1: National curriculum is revised every 10 years.
 Note2: Geography in high school would be compulsory subject from 2022.
 Note3: Big earthquake was occurred in West Japan, 1995.

3. Education for disaster prevention in new curriculum which starts 2020(Primary) , 2021 (Junior high school) and 2022(high school)

• It has been discussing how education for disaster prevention would be implemented, in government. Disaster education is handled in social studies, science, physical education, home economics, etc., but what about the core subject?



Cf. Subjects about Social Studies and Geography in Japan

- Primary school
Social Studies - Social studies is a comprehensive subject that includes geography, history, and the civics.
- Junior high school
Social Studies consists of 3 area that are geography, history and civics.
- High school
Two subjects ; Geography and History, and Civics. Geography is sub subject belonging to Geography and History.

4. New national Curriculum in Japan;

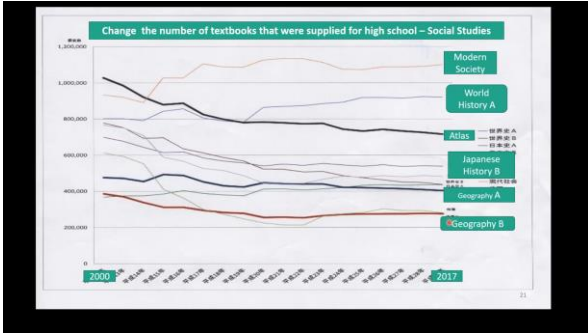
- New national curriculum is starts 2020 for primary, 2021 for junior high school, and 2022 for high school.
- From content-focused to competition-focused course of study.
- Disaster education is more important, particular social studies and geography.

Concept of learning structure in new course of study (curriculum)



5. Geography in New National Curriculum in Japan

- New national curriculum of high school will be carried out from 2022 in Japan.
- In Japan, national curriculum changes about every 10 years.
- Geography as high school subject has been almost optional subject from 1947.
- The number of students who take geography in high school has started to decrease since around 1980.
- There are some reasons such as decreasing students, existing another compulsory subject, examination for university and so.



Review of geography education; Human nature that is educated by geography

1. Human with a deeper worldview
2. Human who can contribute to the world and the region
3. Human who look to the future

Concept of geography education in the new curriculum for that

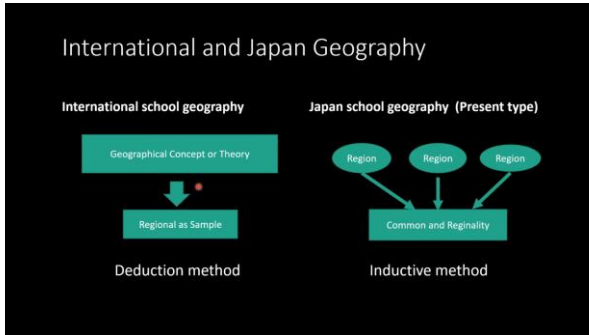
1. Geographical practicality on daily life
2. Deep knowledge, skill and ability to execute for democratic and peaceful international society

Comparison between act and new version: "Geography and History" in high school

Curricula before 2022	New curricula
World history A 2units	• Compulsory Geography 2units
World history B 4nitus	• Compulsory History 2units
<i>World history A or B is compulsory.</i>	• Compulsory History 3units
Japanese history A 2units – Option	• Option Geography 3units
Japanese history B 4units – Option	• Option Japanese history 3units
Geography A 2units – Option	• Option World history 3units
Geography B 4units – Option	

Comparison of concepts in Geography

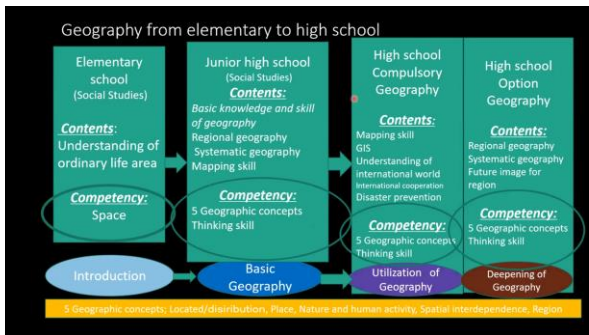
Now version before 2022	New version
<u>Contents are important</u>	<u>Competency and Contents are important</u>
Regional Geography, Systematic geography – Understanding of modern world → Knowledge	Theme learning - Understanding of international world, International cooperation, Disaster prevention ESD(SDGs) → Utilization of Knowledge, Future Image
: Mapping skill, Geographical concepts	: GIS-Map, Geographical concepts



Geography connected from primary to high school

- In 2016, It is concluded that geography will be compulsory subject in high school by government.
- It is the result of geography teachers' and academic geographers' desires and efforts.
- The coherent geography education curriculum from elementary school to the high school will be build up.

Elementary Social studies (E3-E6)	Junior(lower) high Social Studies Geography area (115hours)	(upper) high Geography and History Geography(compulsory) 2units Geography(option) 3units
---	---	---



Geography education of Japan from the view of a global tendency

- The conventional Japanese school geography was a curriculum of the knowledge or contents serious. On the other hand, it has become the curriculum of the competency serious in many countries. But, there is the indication that it is not enough to learn the competency for students, because of the shortage of basic knowledge of geography. The geography education of Japan was late from a global tide. As a result, new education geography curriculum in Japan will be the world's most advanced curriculum of the one round delay.

6. Transit of Textbook about disaster prevention in geography

Description about disaster prevention in social studies and geography textbooks

published year	Junior high school (the number of page for disaster prevention /total)	High school (the number of page for disaster prevention /total)
1995-1998	2/233 (2001)	2/163
2002-2005	2/197	0/159
2013-2016	6/281	6/193

Note1: Nihonbunkyosyuppan-junior high school textbook
Ninomiya-syoten-high school textbook

7. Disaster education that spreads students' eyes to the world

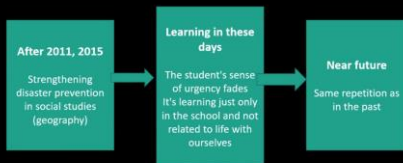
• In Japan, disaster education to protect ourselves has been established.

1. The idea of self-help, helping others, and administrative assistance has also become established for students.
2. Hazard maps have also become of interest in classes.

However, students would disappointed because disaster education from primary school to high school is the main focus on their levies areas.

Students would recognize what they are learning as events of the past. Students' senses of urgency would be fading.

Flow of disaster education and issue



from Japan to Asia and World;

Significance of notice at disasters and disaster prevention in Asia



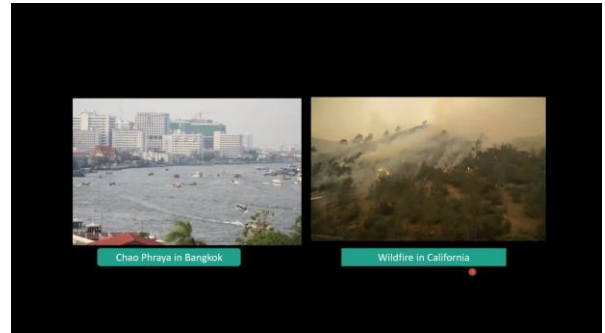
Differences in disasters due to differences in the natural environment.

- Disasters in Japan ; Earthquakes, Floods, Heavy snow etc.
- Disasters in Australia ; Wildfire etc.(because of dry area)
- Disasters in Thai ; Floods etc.(different with floods in Japan)

.....

Differences in disasters due to differences in the natural environment.

→ Disasters educations are different by regions.



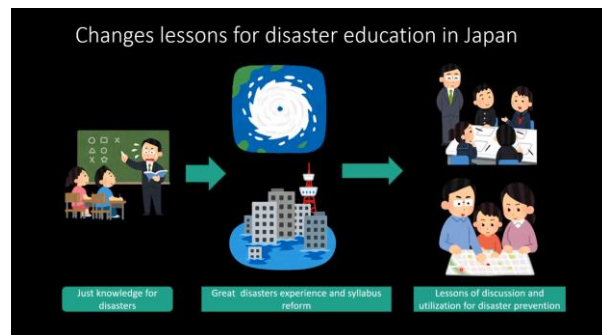
8. Global education of disaster prevention

Students don't only have to do disaster prevention in our own country or region, but to carry out disaster prevention in other countries.

Because;

1. Students have broad knowledge about disaster prevention.
2. Students might have chances to visit some countries – they might keep their selves from the disasters.
3. It would be contribute to help each other when disasters occur anywhere.

→ **Disaster education needs to be global education.**



9. Summary

- the Great East Japan Earthquake Disaster that is approximately 18,000 fatalities of whom 90% were drowned by the tsunami, has changed school geography contents and competency.
- Geography is one of most important subject for protecting children's lives from disasters.
- One of the main reasons why high school geography would be compulsory subject is the introduce of disaster prevention.
- Avoiding the forgetting for great natural disasters would be the main issue not only for geography education but Japanese education.
- Disaster education needs to be global education as for contents and methods in school education.

Suggestion-Conclusion

- Students should be aware of disasters not only in Japan but in the world, and learn how to protect people, in any regions. It is also a method that students will not get tired to learn or thinking disaster prevention from elementary school to high school.