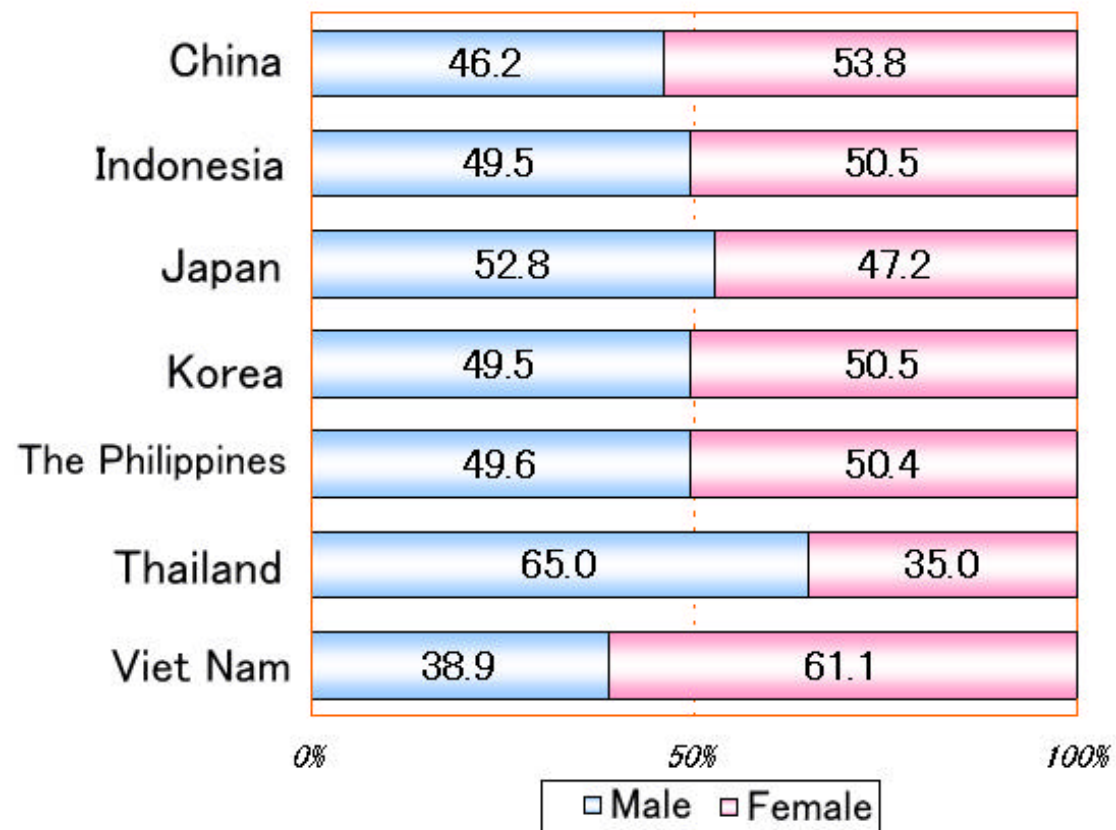


Highlights of the Joint Survey on Understanding and Interest in Radiation Among High School Students in FNCA Countries

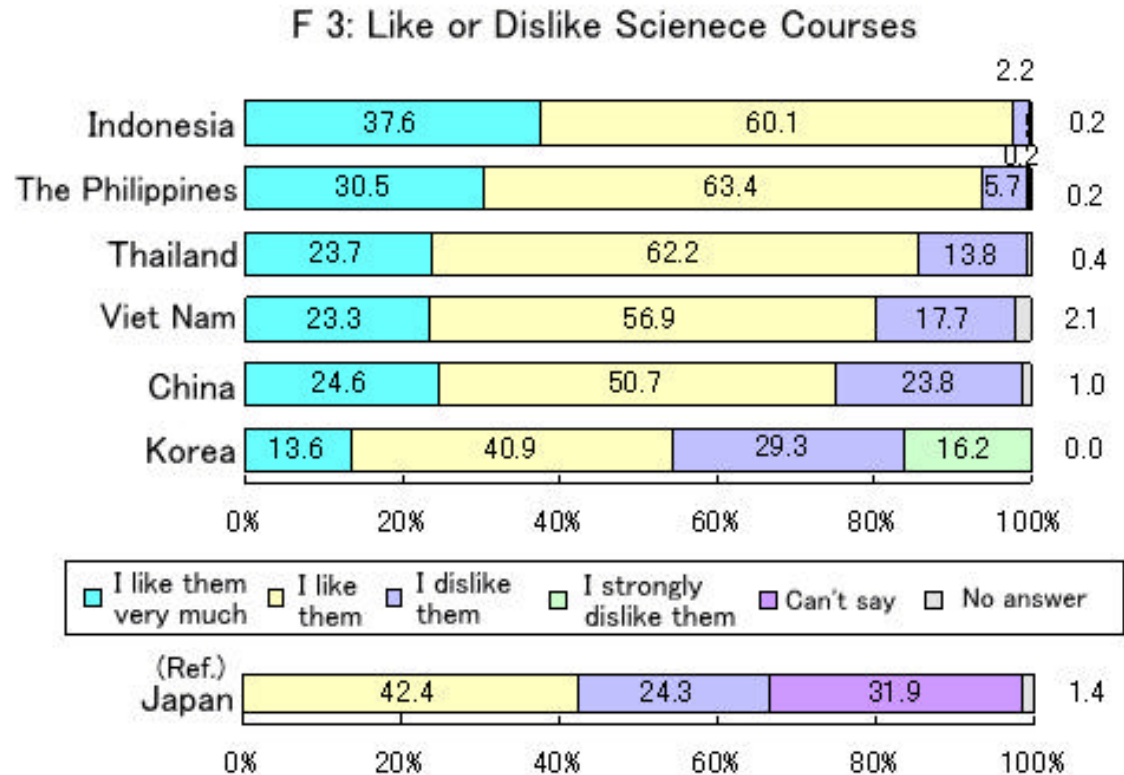


Dr. Yasumasa TANAKA

F1. Percentages of Male and Female Students



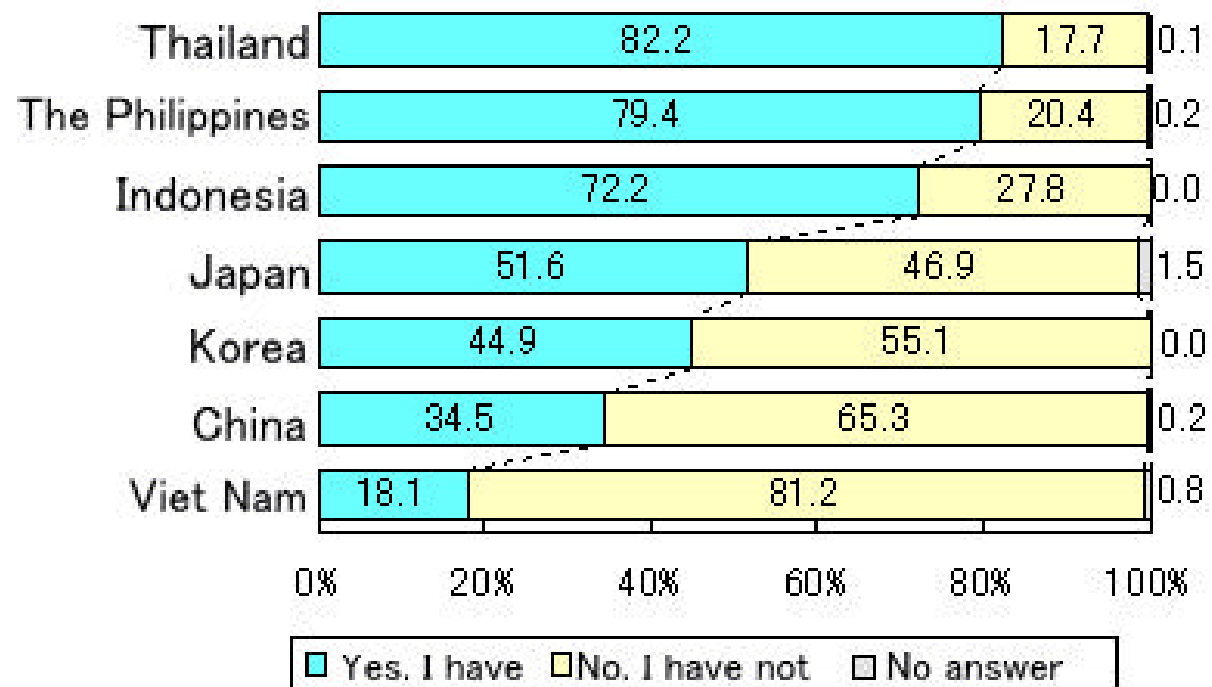
F3. Do you like science courses given in school?



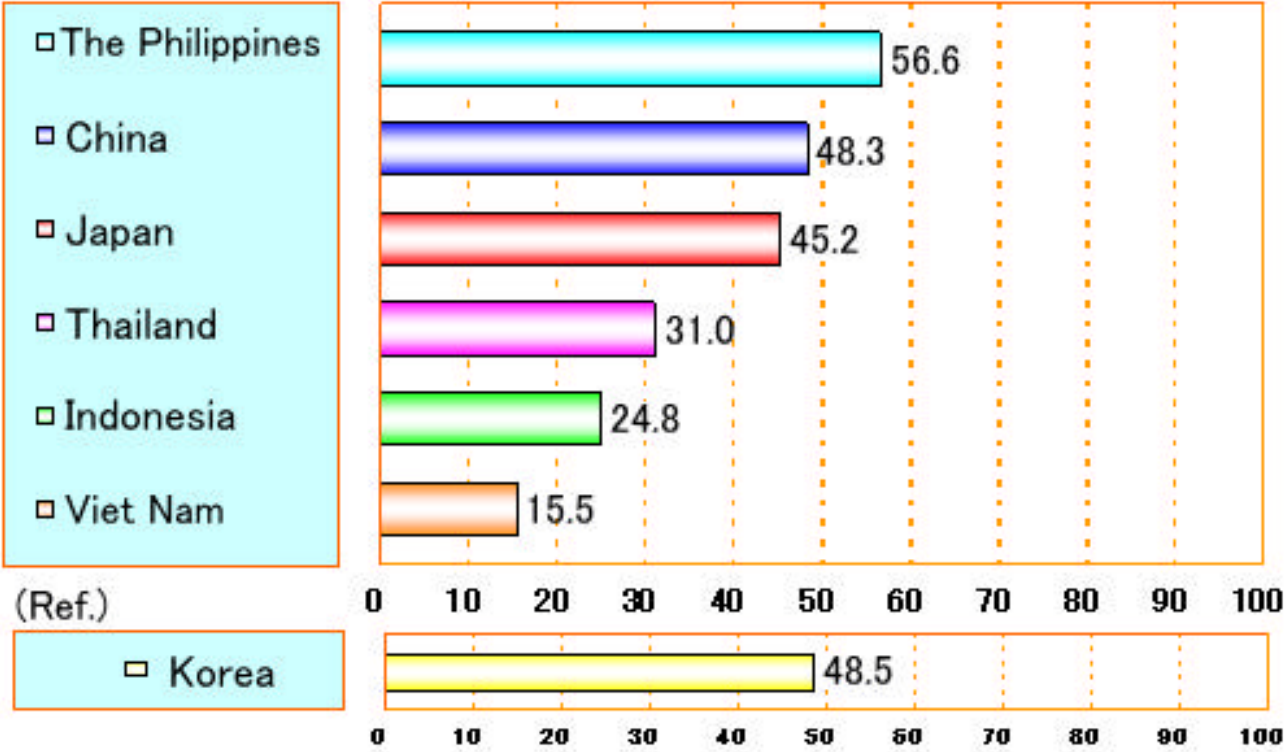
<NOTE> Choices in Japan were "I like them," "I dislike them" and "Can't say."
 Choices in other countries were "I like them very much," "I like them,"
 "I dislike them" and "I strongly dislike them."

F4. Have you ever been taught about “Radiation” or “Radioactivity” in the past at school?

F4. Classes in “Radiation” and/or “Radioactivity”

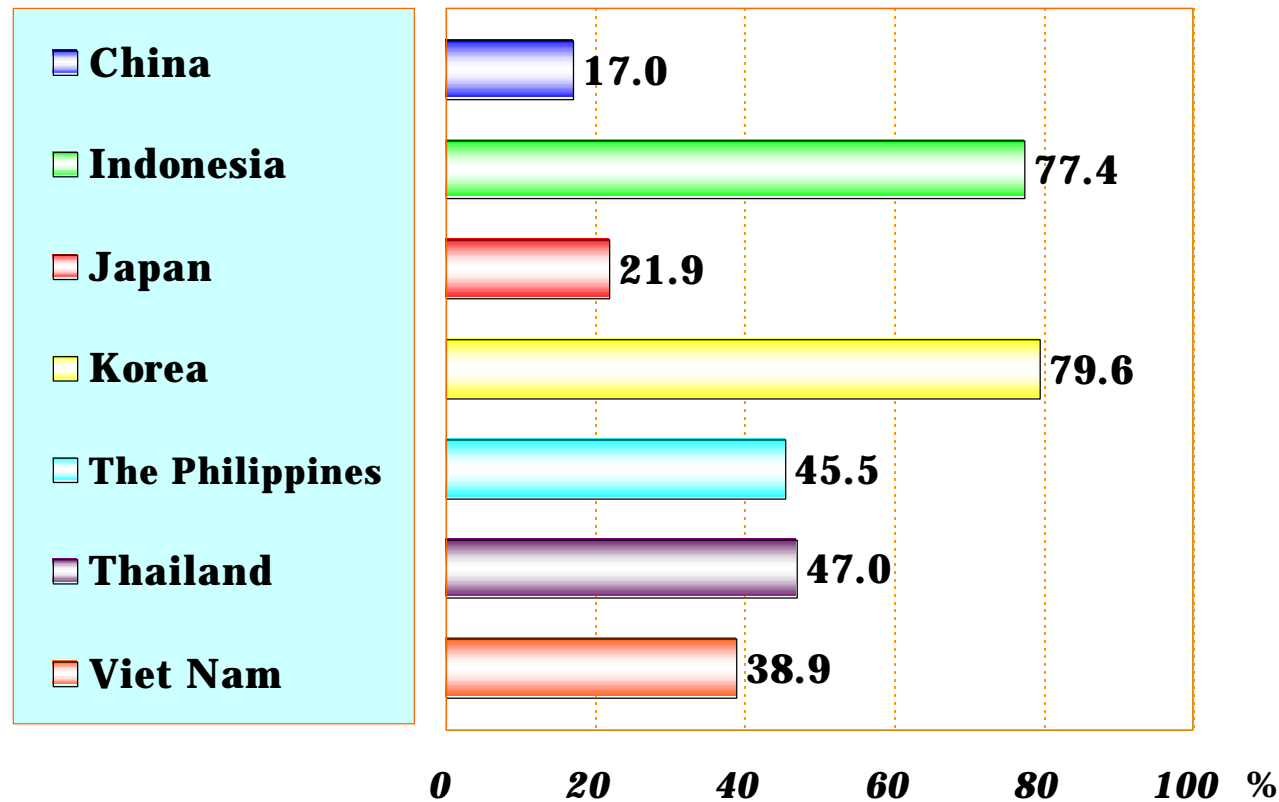


F8. Have you ever visited the “Power Generation Plants”?



Percentage of students by country who have visited Scientific Institutions

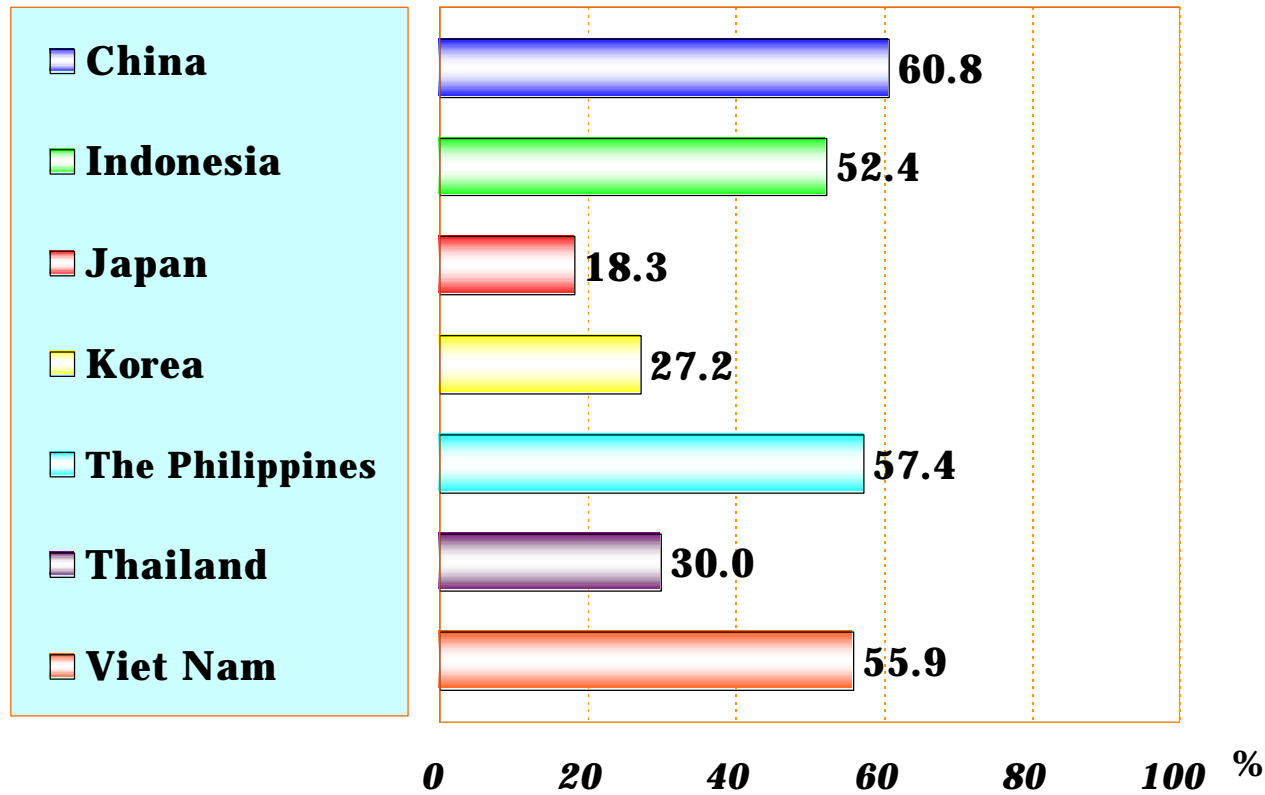
**Q1. “Which among the following issues / items are you most interested in?
About "Science and technology"”**



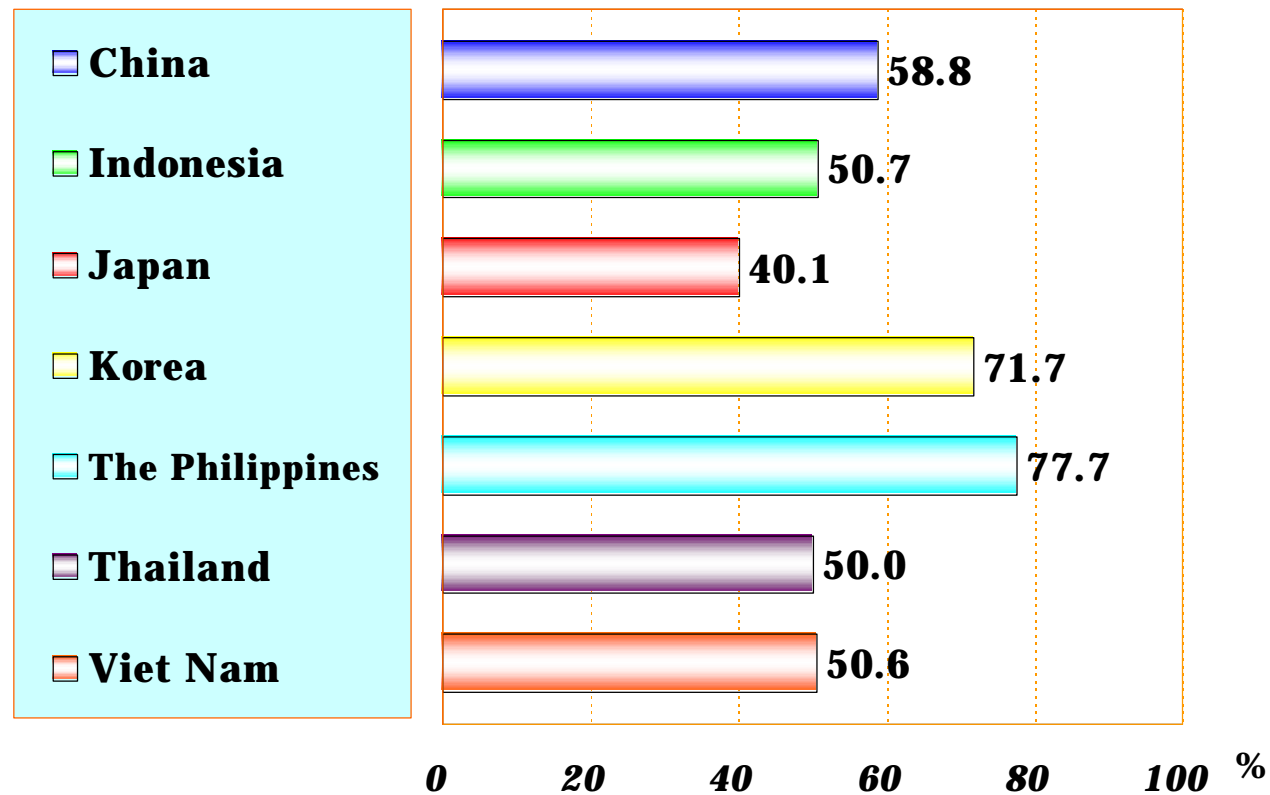
Q2. Sources of Information on Science & Technology

COUNTRY RANKING	China	Indonesia	Japan	The Philippines	Thailand	Viet Nam	Korea
1	TV&Radio 82.3	TV&Radio 92.3	TV&Radio 84.7	TV&Radio 87.8	TV&Radio 86.2	TV&Radio 95.1	TV&Radio 74.8
2	Scientific Magazines and Books 60.8	Newspapers 65.4	Newspapers 52.3	Internet 77.7	Newspapers 62.5	Newspapers 83.8	Internet 71.7
3	Internet 58.8	School Teacher(s) 65.3	School Textbooks 41.2	School Teacher(s) 67.1	Internet 50.0	Scientific Magazines and Books 55.9	Friends 48.4
4	Newspapers 58.2	School Textbooks 59.5	Internet 40.1	Newspapers 61.0	School Teacher(s) 39.7	Internet 50.6	Newspapers 32.5
5	Friends 38.1	Friends 57.0	School Teacher(s) 35.8	Scientific Magazines and Books 57.4	School Textbooks 36.9	School Teacher(s) 39.1	School Textbooks 31.3
6	School Textbooks 35.4	Scientific Magazines and Books 52.4	Family Members (Parents and 26.2	School Textbooks 55.4	Friends 35.3	Friends 34.9	Scientific Magazines and Books 27.2
7	Family Members (Parents and Brother/Sister) 32.2	Internet 50.7	Cartoons and Comic Books 24.3	Exhibits, Fairs, or Seminars 54.7	Scientific Magazines and Books 30.0	School Textbooks 32.7	Cartoons and Comic Books 27.1
8	School Teacher(s) 30.6	Family Members (Parents and Brother/Sister) 44.9	Scientific Magazines and Books 18.3	Friends 47.3	Exhibits, Fairs, or Seminars 28.8	Family Members (Parents and Brother/Sister) 32.7	Family Members (Parents and Brother/Sister) 14.4
9	Cartoons and Comic Books 18.3	Exhibits, Fairs, or Seminars 39.1	Friends 15.3	Family Members (Parents and Brother/Sister) 45.3	Family Members (Parents and Brother/Sister) 27.2	Exhibits, Fairs, or Seminars 29.7	School Teacher(s) 11.9
10	Church, Mosque, or Temple 5.7	Church, Mosque, or Temple 20.5	Exhibits, Fairs, or Seminars 8.5	Cartoons and Comic Books 19.9	Cartoons and Comic Books 10.9	Cartoons and Comic Books 15.6	Church, Mosque, or Temple 0.93
11	Exhibits, Fairs, or Seminars 2.7	Cartoons and Comic Books 18.4	Church, Mosque, or Temple 1.4	Church, Mosque, or Temple 14.0	Church, Mosque, or Temple 1.7	Church, Mosque, or Temple 3.2	- 1 -

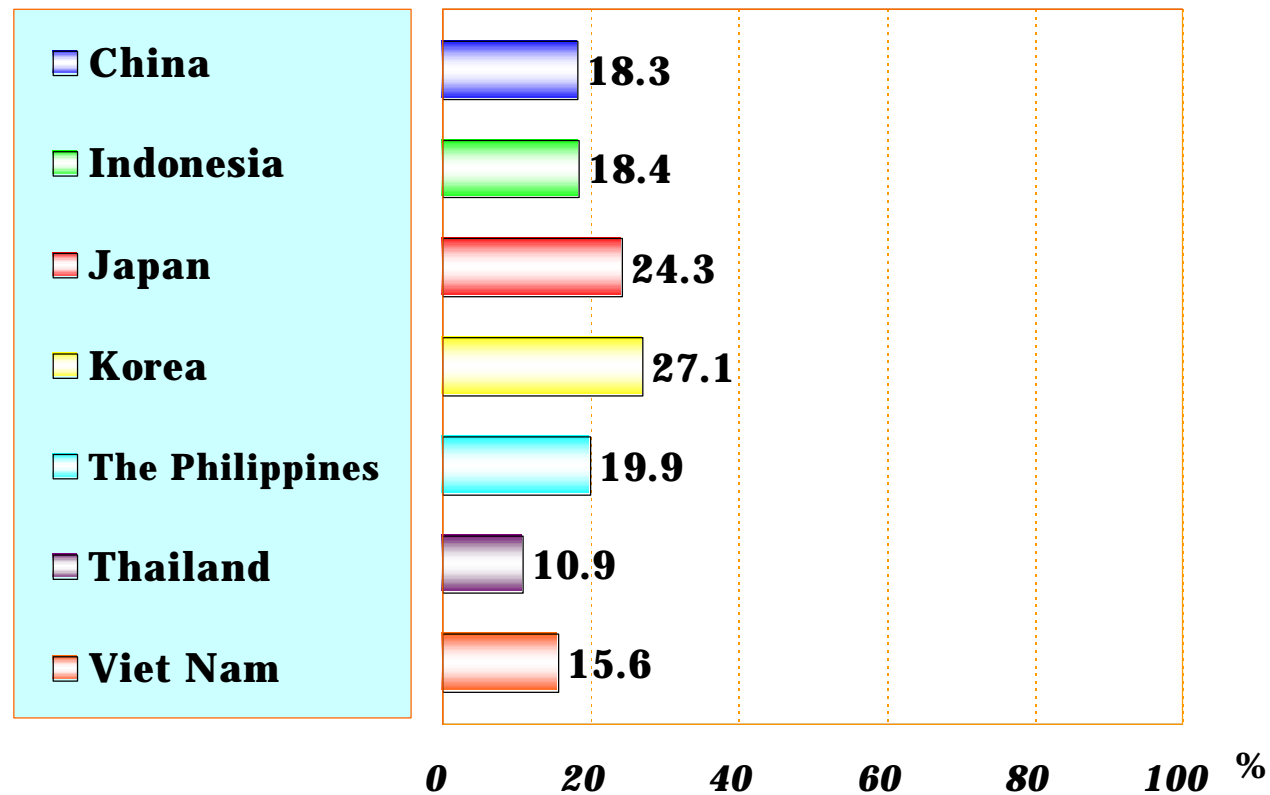
**Q2. "What are you sources of information about science and technology for example, natural phenomena, life and computers, etc. ?
About "Scientific Magazines and Books"**



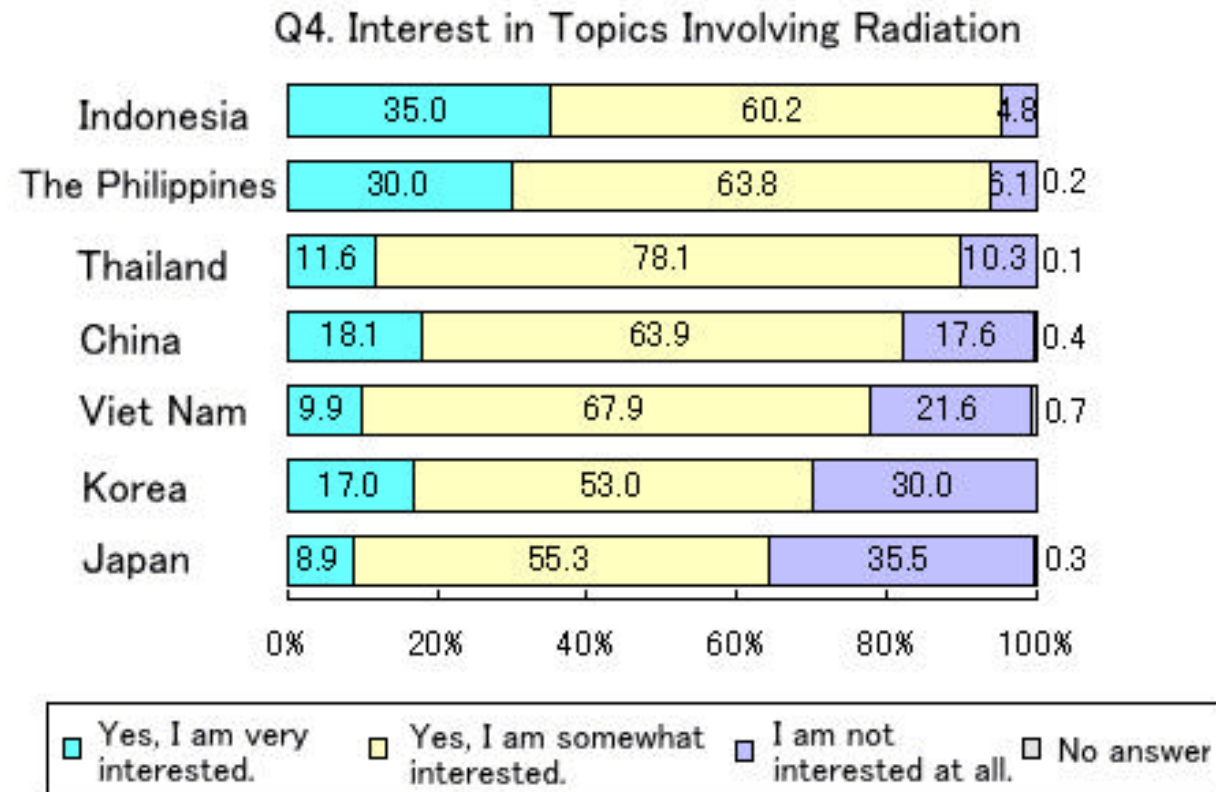
**Q2. “What are you sources of information about science and technology for example, natural phenomena, life and computers, etc. ?
About “Internet”**



**Q2. “What are you sources of information about science and technology for example, natural phenomena, life and computers, etc. ?
About “Cartoons and Comic Books”**



Q4. Are you interested in topics involving radiation?



Q6. Images of Radiation

COUNTRY RANKING	China	Indonesia	Japan	Korea	The Philippines	Thailand	Viet Nam
1	Dangerous	Dangerous	Dangerous	Promising	Familiar	Promising	Dangerous
	81.6 (58.7)	84.7 (62.7)	87.2 (65.1)	72.0 (22.0)	84.6 (48.1)	88.6 (68.6)	93.8 (61.5)
2	Promising	Useful	Useful	Dangerous	Dangerous	Dangerous	Useful
	72.9 (52.2)	81.7 (63.8)	57.6 (27.0)	71.0 (28.0)	83.7 (55.6)	86.1 (65.1)	87.7 (9.6)
3	Useful	Familiar	Promising	Useful	Useful	Useful	Promising
	70.4 (50.2)	70.1 (48.3)	48.0 (23.8)	68.0 (23.0)	78.8 (34.6)	85.2 (53.9)	76.1 (52.3)
4	Controllable	Controllable	Mysterious	Mysterious	Promising	Controllable	Controllable
	54.5 (27.8)	51.8 (28.8)	43.6 (19.7)	67.0 (20.0)	54.3 (16.3)	58.6 (25.9)	75.0 (34.4)
5	Familiar	Mysterious	Weird	Controllable	Mysterious	Familiar	Weird
	43.5 (15.6)	47.2 (29.4)	41.5 (18.4)	65.0 (11.0)	52.6 (26.4)	44.7 (9.8)	64.9 (41.0)
6	Mysterious	Promising	Familiar	Familiar	Controllable	Mysterious	Familiar
	39.8 (15.1)	38.8 (16.0)	26.4 (9.9)	60.0 (28.0)	49.6 (19.5)	41.4 (15.5)	52.4 (22.9)
7	Weird	Weird	Controllable	Weird	Weird	Weird	Mysterious
	29.7 (12.5)	34.8 (16.3)	21.7 (7.5)	50.0 (8.0)	29.5 (10.8)	39.4 (19.0)	36.0 (17.8)

(NOTES) 1) In the chart: Choice (above); percentage selecting (below)

2) Figures show the sum of "Yes, I agree" and "I somewhat agree. "

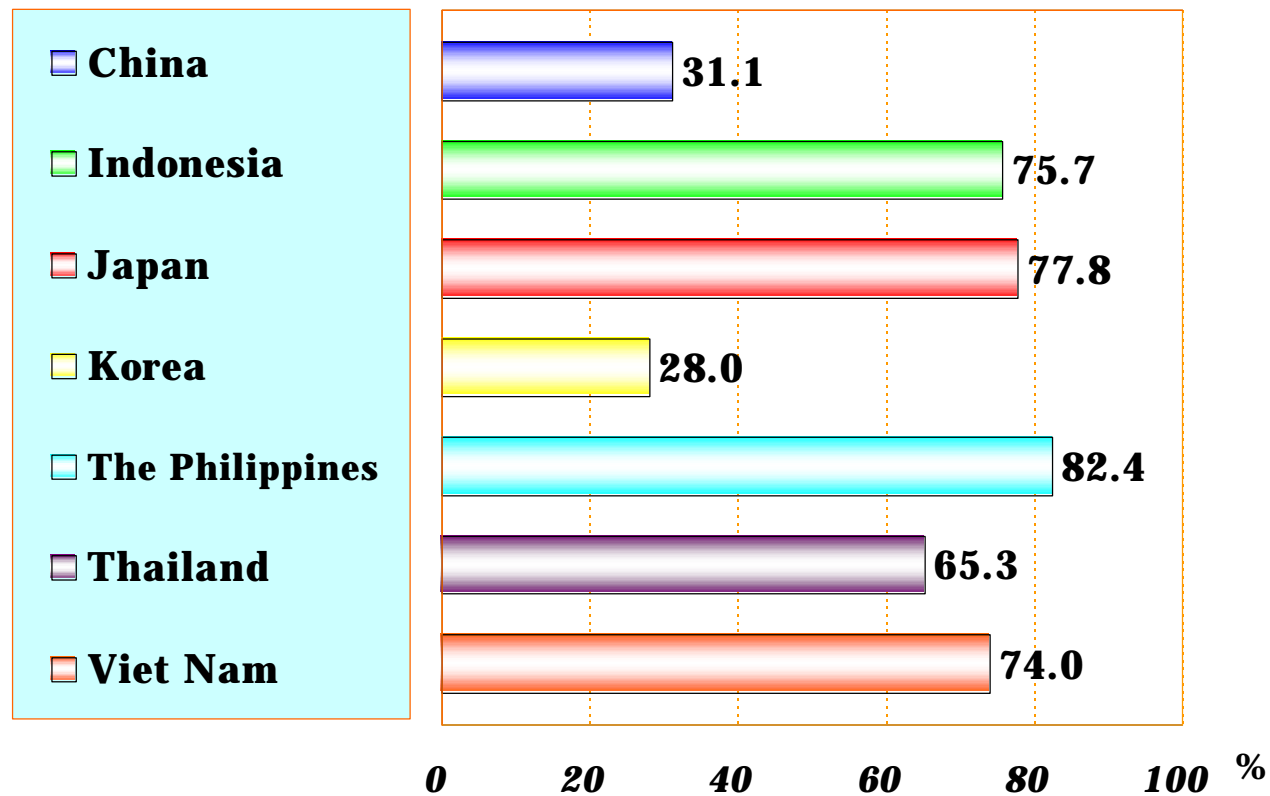
3) Figures in parentheses are for "Yes, I agree."

Q7. What the word "Radiation" Brings to Mind

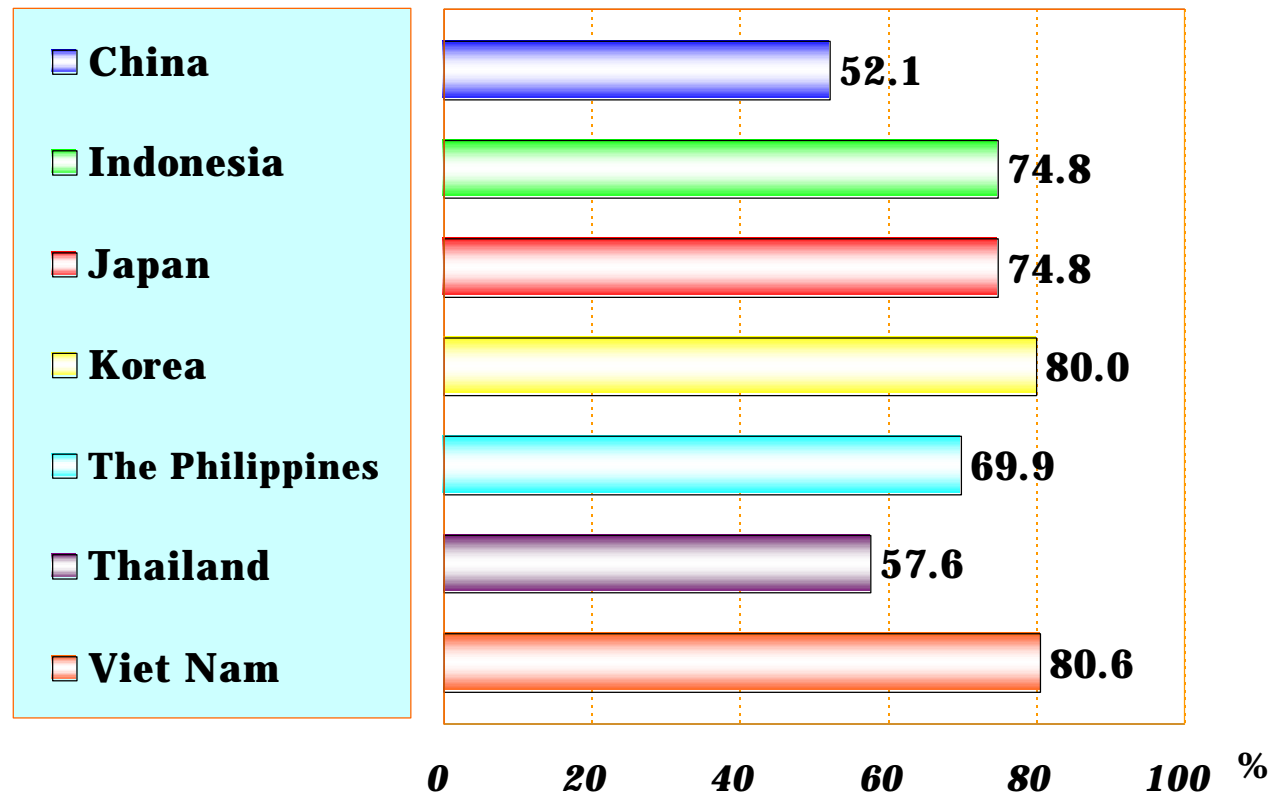
(Ref.)

COUNTRY RANKING	China	Indonesia	Japan	The Philippines	Thailand	Viet Nam	Korea
1	Mr. and Mrs. Curie	An X-ray Picture	Nuclear Power Generation	Nuclear Power Generation	An X-ray Picture	Cancer Therapy	Hiroshima, Nagasaki or Nuclear Weapons
	81.4	81.6	77.8	82.4	87.3	81.6	80.0
2	An X-ray Picture	Nuclear Power Generation	An X-ray Picture	An X-ray Picture	Cancer Therapy	Hiroshima, Nagasaki or Nuclear Weapons	Cancer Therapy
	69.0	75.7	75.6	76.1	66.4	80.6	57.0
3	Mutation Breeding of Crops	Hiroshima, Nagasaki or Nuclear Weapons	Hiroshima, Nagasaki or Nuclear Weapons	Hiroshima, Nagasaki or Nuclear Weapons	Nuclear Power Generation	Exposure	An X-ray Picture
	53.4	74.8	74.8	69.9	65.3	79.5	50.0
4	Hiroshima, Nagasaki or Nuclear Weapons	Cancer Therapy	Exposure	Cancer Therapy	Hiroshima, Nagasaki or Nuclear Weapons	An X-ray Picture	Food Irradiation
	52.1	60.6	71.0	66.0	57.6	78.2	40.8
5	Chernobyl	Mr. and Mrs. Curie	Chernobyl	Exposure	Waste	Nuclear Power Generation	Waste
	50.3	38.8	58.0	60.8	54.7	74.0	35.2
6	Leukemia	Mutation Breeding of Crops	Cancer Therapy	Mutation Breeding of Crops	Food Irradiation	Mutation Breeding of Crops	Chernobyl
	41.0	33.8	42.2	33.7	51.8	71.1	34.2
7	Nuclear Power Generation	Waste	Waste	Waste	Exposure	Mr. and Mrs. Curie	Mutation Breeding of Crops
	31.1	31.0	31.4	31.3	50.2	66.9	32.8
8	Waste	Food Irradiation	Leukemia	Leukemia	Mr. and Mrs. Curie	Food Irradiation	Mr. and Mrs. Curie
	23.4	24.7	26.8	26.6	34.9	52.4	32.5
9	Exposure	Leukemia	Mr. and Mrs. Curie	Mr. and Mrs. Curie	Mutation Breeding of Crops	Chernobyl	Nuclear Power Generation
	19.6	18.1	21.6	25.0	23.7	49.3	28.0
10	Cancer Therapy	Chernobyl	Mutation Breeding of Crops	Food Irradiation	Leukemia	Leukemia	Leukemia
	14.7	14.1	8.5	24.1	20.8	34.8	12.3
11	Food Irradiation	Exposure	Food Irradiation	Chernobyl	Chernobyl	Waste	Exposure
	7.4	3.1	8.0	23.2	17.4	26.4	4.3

**Q7. “What do you imagine when you hear the word
“ Radiation ” ?
About “ Nuclear Power Generation ”**



**Q7. “What do you imagine when you hear the word
“ Radiation ” ?
About “Hiroshima Nagasaki or Nuclear Weapons”**



Q9. Recognition of Applications of Radiation

ITEM	COUNTRY							
	China	Indonesia	Japan	Korea	The Philippines	Thailand	Viet Nam	
Q9-1.Mutation breeding of rice, wheat, soybean, flower, etc.	34.2	25.9	21.3	73.0	48.8	46.7	50.8	
Q9-2.Examination of health conditions and function of organs of human beings	63.8	66.8	72.0	79.0	83.3	76.5	72.0	
Q9-3.Decomposition and removal of air pollutants from exhaust gases of industrial plants	36.7	14.1	18.2	47.0	49.4	26.0	33.0	
Q9-4.Retardation (Delay) of sprouting of potatoes, onions, and garlic	18.7	35.1	20.7	24.0	40.4	36.9	39.1	
Q9-5.Cancer therapy	52.6	54.1	68.2	66.0	72.8	74.7	75.6	
Q9-6.Sterilization of medical supplies like syringes	44.7	31.3	23.4	55.0	47.6	46.9	39.2	
Q9-7.Baggage inspection at airports	55.0	34.9	57.0	56.0	74.6	68.7	55.5	
Q9-8.Prevention of damage to crops and domestic animals by sterilizing harmful insects	25.9	32.2	14.1	46.0	45.7	35.0	27.2	
Q9-9.Measurement of thickness of iron plates in iron factories	16.6	18.5	11.7	48.0	30.3	35.7	21.7	
Q9-10.Nondestructive examination of statues and paintings of cultural value	23.2	18.9	33.8	44.0	34.8	40.5	39.6	
Q9-11.Microanalysis of harmful pollutants in the air	24.7	14.9	23.5	44.0	45.0	25.7	28.6	
Q9-12.Production of heat-resistant insulation for electric wires	16.7	15.7	10.2	55.0	46.8	24.3	21.7	
No.	Category	China	Indonesia	Japan	Korea	Philippines	Thailand	Vietnam
1 2 3 4		<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>		<input type="radio"/>		<input type="radio"/>

Q12. What High School Students Want to Know about Radiation

COUNTRY RANKING	China	Indonesia	Japan	Korea	The Philippines	Thailand
1	Amount of radiation exposure	Amount of radiation exposure	Emergency preparedness	Medical Applications	Amount of radiation exposure	Amount of radiation exposure
	74.7	81.0	56.7	78.8	82.9	70.7
2	Medical Applications	Medical Applications	Safety measures	Amount of radiation exposure	Safety measures	Medical Applications
	57.2	75.2	55.9	77.2	71.7	62.8
3	Advanced fields of research	Emergency preparedness	Amount of radiation exposure	Application in food	Medical Applications	Application in food
	55.6	73.8	48.9	65.0	67.0	54.1
4	Emergency preparedness	Radiation Facilities	Medical Applications	Emergency preparedness	Radiation Facilities	Safety measures
	52.8	67.6	44.5	62.0	64.7	52.6
5	Safety measures	Application in food	Advanced fields of research	Regulation	Emergency preparedness	Emergency preparedness
	48.9	66.8	36.1	61.3	61.3	48.1
6	Radiation Facilities	Advanced fields of research	Application in food	Advanced fields of research	Application in food	Radiation Facilities
	48.0	64.3	33.7	58.3	59.6	45.2
7	Application in food	Safety measures	Radiation Facilities	Safety measures	Advanced fields of research	Applications in industry
	41.3	64.0	33.2	46.7	59.4	45.6
8	Mutation breeding	Applications in industry	Regulation	Mutation breeding	Applications in industry	Regulation
	35.6	52.9	26.6	44.4	51.8	40.7
9	Applications in industry	Mutation breeding	Mutation breeding	Applications in industry	Mutation breeding	Mutation breeding
	35.0	47.3	19.6	40.8	47.0	34.2
10	Regulation	Regulation	Applications in industry	Radiation Facilities	Regulation	Advanced fields of research
	26.3	27.9	18.4	35.3	37.3	31.8