

## **General Directions**

The TIMSS Advanced 2008 Curriculum Questionnaire for physics is designed to collect information about the organization, content, and implementation of the intended physics curriculum in each country. The questionnaire should be completed by the National Research Coordinator, drawing on the expertise of curriculum specialists and educators.

Your responses are very important for us in interpreting the student achievement and background information collected in other parts of the study. Thank you very much for the time and effort you have put into responding to this questionnaire.

#### **Contact Information**

Country:	 	
Name of Person Completing this Questionnaire:		
Position:		
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Address:		
Email:		
Phone:		
FaxFax		

## **Physics Curriculum and Instruction**

Comments:			
Comments:			
b) Is that curriculum c	urrently being revised	1?	
,		one circle only.	
	Yes No	0	
	No	O	
If Yes			
Please explain:			
If No			
If No Comments:			

Check o	one circle only.
Yes	0
No	0

a) Does the national curriculum contain statements/policies about the use of calculators by students in the physics track or course being assessed in TI Advanced?		
	Check <b>one</b> circle only.	
	Yes	
	Yes O No O	
	If Yes What are the statements/policies?	
	If No	
	Comments:	
	b) If Yes Does the policy address requirements for the types of calculators that may be used?	
	Check <b>one</b> circle only.	
	Yes	
	Yes O No O	

	If Yes Describe the types of calculators (e.g., graphing, symbolic):
	If No Comments:
Ar	re students permitted to use calculators in national examinations?
	Check <b>one</b> circle only.
	Yes
	No
<i>Yes</i> . escri mbo	be the policy and the types of calculator(s) allowed (e.g., graphing,
Wl	ho pays for the calculators?

4. Does the national curriculum contain statements/policies about the use of computers by students in the physics track or course being assessed in TIMSS Advanced?

Check of the Check

5. According to the curriculum, should the students in the physics track or course being assessed in TIMSS Advanced have been taught each of the following topics by the end of the year (in the current course or before)?

If part of a topic does not apply (e.g., refraction in topic (c) below), please cross out that part and answer for the major part of the topic.

Check one circle for each line.

Yes No

### A. Mechanics

a) The conditions for equilibrium and the

	Yes	No
c) Charged particles in a magnetic field, relationship between magnetism and electricity; Faraday's and Lenz' laws of induction	0	
d) Electromagnetic radiation; wavelength and frequency of various types of waves (e.g., radio, infrared, x-rays, light)	0	O
C. Heat and Temperature		
a) Difference between heat and temperature; heat transfer and specific heat capacities; evaporation and condensation	0	0
b) Expansion of solids and liquids in relation to temperature change; the law of ideal gas; the first law of thermodynamics		

6. In what form is the physics curriculum made available?

Check one circle for each line.

	Yes	No
a) Official publication containing the curriculum	0-	-0
b) Ministry notes and directives	0-	-0
c) Mandated or recommended textbooks	0-	-0
d) Instructional or pedagogical guide	0-	-0
e) Specifically developed or recommended instructional activities	0-	-0
f) Prescribed syllabus for public examination	0-	-0
g) Other	0-	-0
Please specify:		
Comments:		

a) Are textbooks that are used in the physics track or course being assessed in TIMSS Advanced certified by an education authority?
Check <b>one</b> circle only.
Yes
Yes O
Comments:
b) Who pays for the textbooks?
Please describe:

8.	a) Does your country have a nationally mandated number of school days per year for the students in the physics track or course being assessed in TIMSS Advanced?
	Check <b>one</b> circle only.
	Yes O
	No
	Please describe:
	b) What is the total amount of class time in physics prescribed by the curriculum 1 hcou =4 6 aminutesb)e

	Check	one circle only.
	Yes	0
	Yes No	0
f Yes Please explain:		

Comments:		

11. If changes were made to the physics curriculum, how would a teacher be informed about them?

Check one circle for each line.

	Yes No
a) Special conferences/seminars on curriculum	0-0
b) Ministry (department of education, government, board of education) website	0-0
c) Printed copies of curriculum distributed to schools	0-0
d) Teachers receive own printed copy	0-0
e) Professional development/in-service education	0-0
f) Ministry notes	0-0
g) Professional association newsletter	0-0
h) Education journals	0-0
i) Other educational authorities	0-0
j) Other	0-0
Please specify:	
Comments:	

12. How is the physics curriculum implementation evaluated?

Check one circle for each line.

	Yes	No
a) Visits by inspectors	0-	-0
b) Research programs	0-	-0

			one circ	om upper secondary sole only.	scho
		Yes	0		
		Yes No	0		
the grades at which	_		iers exar	ninations in physics,	and
If No Comments:					_

# Thank You

for completing this questionnaire



