

TRENDS IN INTERNATIONAL

TIMSS



International Association for the Evaluation of Educational Achievement
aX7VgUSfja` S^3UZ[MWV W f
Ä 5abkdYZf;73l \$" " *

General Directions

KagdeLZaa^ZSeSYdVW fa bScf[U]bSfW F;? EE 3VhS` UW \$" " *žEba` eadW Tk fZW` fVd Sf[a` S^ 3eaaU[Sf[a` XadfZW7hSgSf[a` aX7VgUSf[a` S^ 3UZ[VWV_ Wf;/73fif;? EE^AdFdVVe[; fVd Sž f[a` S^? SfZW_ Sf[LeS` V EU[VW UMEfgVkf[ie_ VSegdž [Y fdVVe[efgVWfSUZ[VWV_ WfS` V efgVk[Y V[VdVUv[` Sf[a` S^VWgUSf[a` ekefV_ e[adVd fa ZWb [bcahWVbSUZ[Y S` V Vsd [Y i adVž i [Vž

3ebScf aXFZWefgVkt efgVW fe[S` Sf[a` i [WV eS_ b^MaX. fi WfZžYdSVW USeeV[. Uag` fckO i [^Ua_ b^WfZWf;? EE 3VhS` UW_ SfZW_ Sfž [LeS` V!adbZke[Le fVfžFZ[ecgVf[a` ` S[dM[e SVVdVW fa fZWVbSUZVW aXFZVW efgVW fež3e SfVbSUZVW aXa` W aXFZVW eS_ b^W USeeV kagddž eba` eV fa fZVWcVf[a` eSdVhVtk [badS` f [ZWb[Y fa VVUqTWVWgUSf[a` [. Uag` fckOž

Ea_ W aXFZWcVf[a` e[fZ[ecgVf[a` ` S[dVWVd ebWU[-US^k fa efgVW fe[fZWf;? EE USeežFZ[e [efZWUSeeFZSf[e[VWf[-W a` fZWUahVW aXFZ[e cgVf[a` ` S[dMS` Vi [^TWVWVW SebScf aXF;? EE 3VhS` UW \$" " * [kagdeLZaaž;f[e [badS` f fZSf kag S` ei VdVbSUZ cgVf[a` U dVg^k ea fZSf fZW [Xad_ Sf[a` kag bcah[VWVWVW fe kagde[fgSf[a` Se SUgSfVWk Sebae[TVž

BVSeW[VWf[X S f[WS` V b^SUW ZVdWkagi [^ TWST^Mfa Ua_ b^WfZ[ecgVf[a` ` S[dW [fZagf TW Y [fVdgbfWžFZ[eeZagV dVtgdW a_ adV fZS` & _ [gfVžFa _ S]Wf SeVbSk Sebae[TVWad kag fa dVba` Vt_ aefcgVf[a` e_ Sk TWS` ei VdV e[b^k Tk ~^f Y [fZWSbbcabqSfWU[VWž

A` UWkag ZShWUa_ b^WVW fZWcVf[a` ` S[dW b^SUWf [fZWVWgd W hWabWbcah[VW S` V dV

Background Information

1 _____

How old are you?

Fill in **one** circle only

G` Wd\$' -----○

\$' , \$+-----○

%' , %+-----○

&" , &+-----○

' " , ' +-----○

(" ada Wd-----○

11

In the past two years, have you participated in professional development in any of the following?

*Fill in **one** circle for each row*

 No
 Yes

13

Thinking about your current school, indicate the extent to which you agree or disagree with each of the following statements.

Fill in **one** circle for each row

	Disagree a lot	Disagree	Agree	Agree a lot
Sfi	○	○	○	○
Tfi	○	○	○	○
Ufi	○	○	○	○

15

How would you characterize each of the following within your school?

Fill in **one** circle for each row

	Very high	High	Medium	Low	Very low
Sfi	○	○	○	○	○
Tfi	○	○	○	○	○
Ufi	○	○	○	○	○
Vfi	○	○	○	○	○
Wfi	○	○	○	○	○



The following list includes the main topics addressed by the TIMSS physics test. Choose the response that best describes when students in the <TIMSS class> have been taught each topic. If a topic was taught half this year but not yet completed, please choose "Mostly taught this year." If a topic is not in the curriculum, please choose "Not yet taught or just introduced."

Fill in **one** circle for each row

Not yet taught or
 just introduced
 Mostly taught this year
 Mostly taught before this year

A. Mechanics

- Sfi FZWLa` V[f[a` eXadVtq[[Tdg_ S` V fZWk` S_ [UeaXV[VdVfkbVeaX_ ahV_ Wf----- O -- O -- O
- Tfi =[V[US` V bafWf[S`WVdk-La` eVhSf[a` aX_ WZS` [US`WVdk----- O -- O -- O
- Ufi ? WZS` [US`i ShWbZWa_ WS [eag` Vi SfVdS` V efd` Ye-fZWdMSf[a` eZ[b
TVi WV ebWVh XdVgWUk` S` Vi ShWVYfZ-dVdSf[a` ----- O -- O -- O
- Vfi 8adVh [UgV[Y XqUf[a` S`adVWSUR[Ya` S_ ah[Y Tavk ----- O -- O -- O
- Wfi 8adVh SUR[Ya` STavk_ ah[Y [S Ucdg` SdbSFZ-fZWV aVkieUVfd[bVdS`SUWVMSf[a` †
ebWVh S` V Ucdg` Y f_ WfZWSi aXYdsh[Sf[a` [dMSf[a` fa fZW_ ahV_ Wf aXb`S` We----- O -- O -- O
- Xfi 7Sef[US` V [Wsef[Ula`feja` -fZWSi aXLa` eVhSf[a` aX_ a_ Wfg_ S` V fZW
`Si` aXLa` eVhSf[a` aX_ WZS` [US`i [V[UFiVWdk----- O -- O -- O
- Yfi 3ebVUfeaXdMSf[hfk`VYz` WYfZ La` fdSUR[a` S` V f_ WV[SfSf[a` XadS` aTVUf
_ ah[Yi [fZ La` eS` f ebWV [dMSf[a` fa fZWaTeVhVfi----- O -- O -- O

B. Electricity and Magnetism

- Sfi 7WUfcbefSf[USfcdSUR[a` addVbg`e[a` TVi WV [ea`SfW LZSdVW bSdf[UW, 5ag`a_ Tie`Si ----- O -- O -- O
- Tfi 7WUfdUS`Ucdg[fe, AZ_ ie`Si S` V <ag`Me`Si` XadLa_ b`Vj` WUfdUS`Ucdg[fe----- O -- O -- O
- Ufi 5ZSdVW bSdf[UW [S_ SY` W[U-VW-dMSf[a` eZ[b TVi WV _ SY` W[e_ S` V WUfdUf[k-
8ScSVSkie`S` V >Wl`i`Si` eaX[VgUf[a` ----- O -- O -- O
- Vfi 7WUfcb_ SY` W[UdSV[Sf[a` -i` ShWVYfZ S` V XdVgWUk` aXhScjagefkbVeaXi` ShV
VYz` dV[at [XsdVh` j` Zskel` YZffi----- O -- O -- O

C. Heat and Temperature

- Sfi 6[VdVUWTVi WV ZVbS` V fV_ bVdSfgdVZVbS` fcd` eVdS` V ebVU[-UZVbS`USbSUR[Ve-
VhSbacdf[a` S` V La` VWeSf[a` ----- O -- O -- O
- Tfi 7j`bS` e[a` aXea[VeS` V [cg[Ve[dMSf[a` fa fV_ bVdSfgdVZS` YWfZWSi aX[VVb`YSeV-
fZW-def`Si` aXfZVd_ aVk` S_ [Ue----- O -- O -- O
- Ufi : VbF/zT`SUJ` Tavk`SfcdV[Sf[a` S` V fV_ bVdSfgdV----- O -- O -- O

D. Atomic and Nuclear Physics

- Sfi FZWefcdUfgdVhXfZWSfa_ S` V [fe` gUVge[fVd_ eaXWUfcb` e` bdfaf` e` S` V` Vgfd` e-
Sfa_ [U` g_ TVdS` V Sfa_ [U_ See` g_ TVd----- O -- O -- O
- Tfi >[YZf W_ [eja` S` V STeacdf[a` S` V fZWVZSh[adaXWUfcb` e-fZWbZafaWUfdUWVUf----- O -- O -- O
- Ufi FkbVeaX` gUVSddVUR[a` e[VV -eja` † Xge[a` † S` V dSV[aSUR[hWVWskfiS` V fZV[d
cb`M` `SfgdVWYz [eSdfS` V eaUVk`VYz` dVdSf[a` Ta_ Tefi dSV[aSUR[hV[eafabV----- O -- O -- O

28

Do you assign physics homework to the <TIMSS class>?

No
Yes
 Fill in **one** circle only: -----○-----○

If **No**, please go to question **32**

31

How often do you assign the following kinds of physics homework to the <TIMSS class>?

*Fill in **one** circle for each row*

		Never or almost never	Sometimes	Always or almost always
Sfi	6a[Y bđT W_ !cgWf[a` eWe	○	--○	---○
Tfi	DV&V[Y fZWV/fTaa]	○	--○	---○
Ufi	? W_ adl [Y Xad_ g'SeS' V bđUWgdV	○	--○	---○
Vfi	9SfZW[Yl S' SKl [Yl S' V dWad[Y VSfS	○	--○	---○
Wfi	8[V[Y a` Wad_ adWbb^USf[a` e aXfZWb` fWf UahW	○	--○	---○
Xfi	l ad [Y a` bđWUfe	○	--○	---○

32

How much emphasis do you place on the following sources to monitor students' progress in physics?

Fill in **one** circle for each row

	Major emphasis	No emphasis
	Some emphasis	Little emphasis
Sfi	5'Seeda_ fVefe ^VZi fVBUZVZ_ SVWad fVfTaa] fVefi-----	○ -- ○ -- ○ -- ○
Tfi	;`Xad_ S^SeeV_e_ Wf -----	○ -- ○ -- ○ -- ○
Ufi	. AfZVdVfVfO-----	○ -- ○ -- ○ -- ○

33

How often does the <TIMSS class> take a physics test or examination for a grade?

Fill in **one** circle only

3f Vef a` UMS_ a` fZ-----○

3Tagf VVvk afZVd_ a` fZ -----○

3Tagf \$ad%f_ V`SkVd-----○

@VVd-----○

34

A. What item formats do you typically use in your physics tests or examinations?

Fill in **one** circle only

A` k La` efdjUfW dVba` eW-----○

? aef`k La` efdjUfW dVba` eW-----○

3Tagf ZS`XLb` efdjUfW dVba` eW
S` V ZS`XaT`VUf`hW
^VZ_ g`f`b`VUZa[UfV-----○

? aef`k aT`VUf`hW-----○

A` k aT`VUf`hW-----○

B. How often do your physics tests or examinations include a practical examination or laboratory problems?

Fill in **one** circle only

3↑ SkeadS^_ aef S↑ Ske-----○

Ea_ VV_ V` -----○

@VVd`adS^_ aef` VVd-----○

35

How often do you include the following types of questions in your physics tests or examinations?

Fill in **one** circle for each row

	Always or almost always	Never or almost never
	Sometimes	
Sfi	CgVef[a` eTSeW a`]` ai [Y XUfeS` V La` UVfe-----	○ -- ○ -- ○
Tfi	CgVef[a` eTSeW a` fZW Sbb[USf[a` aX]` ai` VVWS` V g` VVfS` V[Y -----	○ -- ○ -- ○
Ufi	CgVef[a` e[ha`h[Y VVWab[Y ZkbaZVVeS` V VVdY` [Y eUVf[-U[hVf[YSf[a` e-----	○ -- ○ -- ○
Vfi	CgVef[a` edVtgd` Y VVb`S` Sf[a` e adgef[-USf[a` e-----	○ -- ○ -- ○

