



International  
Lynch School of Education

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# TIMSS 2011 User Guide for the International Database

## Supplement 3

Variables Derived from the Student, Home,  
Teacher, and School Questionnaire Data

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United Graduate International Database  
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## Derived Variable Naming Convention

# Section 1

## Fourth Grade – Student Questionnaire

SECTION 1:

# Section 2

## Fourth Grade – Home Questionnaire

Derived Variable Name: ASDHOCCP

Variable Label: Parents' Highest Occupation Level

Fourth Grade

Title: Final Release

Country: United States; Country Code: 238

Reference: 4.1, 4.2;

4.1, 4.2

4.1, 4.2

Procedure:

B. The following procedure was used to create the derived variable:

1. If the parent's occupation is "C" (Clerical, Sales, Service, or Protective Occupations), then the parent's highest occupation level is "C".

2. If the parent's occupation is "A" (Professional, Technical, or Managerial Occupations), then the parent's highest occupation level is "A".

C. The following procedure was used to create the derived variable:

1. ("C" = "Clerical, Sales, Service, or Protective Occupations") = 1

2. ("A" = "Professional, Technical, or Managerial Occupations") = 2

3. ("C" = "Clerical, Sales, Service, or Protective Occupations") = C

4. ("A" = "Professional, Technical, or Managerial Occupations") = A

5. ("C" = "Clerical, Sales, Service, or Protective Occupations") = 1

6. ("A" = "Professional, Technical, or Managerial Occupations") = 2

7. ("C" = "Clerical, Sales, Service, or Protective Occupations") = C

4. If the parent's occupation is "A, B 20A" or "A, B 20B", then the parent's highest occupation level is "A".

1 = "C", 2 = "A", 3 = "C", 4 = "A", 5 = "C", 6 = "A", 7 = "C"

7 = "A"





Derived Variable Name: ASDHAPS

Variable Label: Student Attended Preschool

Fourth Grade

Title: Final National Release

Date: 11/11/2011 10:00:00 AM

Release: 4.10;

Date: 11/11/2011 10:00:00 AM

Date: 11/11/2011 10:00:00 AM

Procedure:

B. The following procedure was used to create the derived variable:

D. The following procedure was used to create the derived variable:

1. If CEDJ = 0, then

2. If CEDJ &lt; 0, then

3. If CEDJ &gt; 0, then

1. If CEDJ = 0, then

2. If CEDJ &lt; 0, then

3. If CEDJ &gt; 0, then

4. If CEDJ = 0, then

1=3, 2=1, 3=1, 4=D.

# Section 3

Derived Variable Name: ATDMO<sub>3</sub>

Variable Label: Teachers Majored in Ed and Math

Fourth Grade

Background Variable Description:



Derived Variable Name: ATDG01

Variable Label: Teachers Years of Experience

Fourth Grade

B\_01 (A B\_01) = A B\_01 - 01 (A B\_01):

B\_01 (A B\_01) = A B\_01 - 01 (A B\_01):

(A B\_01 - 01)

1 (A B\_01 >= 20) = 20

2 (A B\_01 >= 10 & A B\_01 < 20) = A B\_01 - 10 B\_01 >= 20

3 (A B\_01 >= 5 & A B\_01 < 10) = A B\_01 - 5 B\_01 >= 10

4 (A B\_01 < 5) = A B\_01 - 5

Derived Variable Name: ATDM12NU

Fourth Grade





Derived Variable Name: ATDM12DA

Variable Label: Teachers Prepared to Teach Data

Fourth Grade

Title: Final Reading Habits

Description: Final Reading Habits - 2012-2013

Release: 7.9

Precedence: 7.9

Precedence: 7.9

Background: This variable is derived from the following question:

Are you prepared to teach the following skills? (Yes/No/Not Sure)

12C:

12C.A: (A B12CA),

12C.B: (A B12CB),

12C.C: (A B12CC)

12C.D: "12C.A", "12C.B", "12C.C", "12C.D"

12C.E: (12C.A), (12C.B), (12C.C), (12C.D), (12C.E)

12C.F: (12C.A), (12C.B), (12C.C), (12C.D), (12C.E), (12C.F)

12C.G: (12C.A), (12C.B), (12C.C), (12C.D), (12C.E), (12C.F), (12C.G)

12C.H: (12C.A), (12C.B), (12C.C), (12C.D), (12C.E), (12C.F), (12C.G), (12C.H)

Derived Variable Name: ATDS11LI

Variable Label: Teachers Prepared to Teach Life Science

Fourth Grade

**Procedure**

Build derived variable ATDS11LI from ATDS11A-F:

1. Add derived variable ATDS11A\_1: ATDS11A\_1 = ATDS11A\_1 + ATDS11B\_1 + ATDS11C\_1 + ATDS11D\_1 + ATDS11E\_1 + ATDS11F\_1

ATDS11A\_1:

1. I am confident that I can teach life science. (A B, 11AA),

2. I have the necessary background to teach life science. (A B, 11AB),

3. I have the necessary resources to teach life science. (A B, 11AC),

4. I have the necessary skills to teach life science. (A B, 11AD),

5. I have the necessary motivation to teach life science. (A B, 11AE),

6. I have the necessary time to teach life science. (A B, 11AF)

ATDS11A\_1 = ATDS11A\_1 + ATDS11B\_1 + ATDS11C\_1 + ATDS11D\_1 + ATDS11E\_1 + ATDS11F\_1

7. I am confident that I can teach life science. (C 1, 2) ATDS11A\_2 = ATDS11A\_1 + ATDS11B\_2 + ATDS11C\_2 + ATDS11D\_2 + ATDS11E\_2 + ATDS11F\_2

8. I have the necessary background to teach life science. (C 1, 2) ATDS11B\_2 = ATDS11B\_1 + ATDS11C\_2 + ATDS11D\_2 + ATDS11E\_2 + ATDS11F\_2

9. I have the necessary resources to teach life science. (C 1, 2) ATDS11C\_2 = ATDS11C\_1 + ATDS11D\_2 + ATDS11E\_2 + ATDS11F\_2

Derived Variable Name: ATDS11PH

Variable Label: Teachers Prepared to Teach Physical Sci

Fourth Grade

Title Final Release E hibi

.....

Re L ca i n

..... 7.9

P ced e

B.....

.....?

.....-11B...:

..... (A B, 11BA),

C..... (A B, 11BB),

F..... (A B, 11BC),

F..... (A B, 11BD),

C..... (A B, 11BE),

I..... (A B, 11BF),

E..... (A B, 11B ),

F..... (A B, 11B )

....."

C.....-(C ... 2)

C.....-(C ... 1).

Derived Variable Name: ATDS11ES

Variable Label: Teachers Prepared to Teach Earth Science

Fourth Grade

Title: Final National Report

1. The following table shows the number of teachers who responded to the question:

Response: 7.9

7.9

Procedure:

1. The following table shows the number of teachers who responded to the question:

2. The following table shows the number of teachers who responded to the question:

3. The following table shows the number of teachers who responded to the question:

4. The following table shows the number of teachers who responded to the question:

5. The following table shows the number of teachers who responded to the question:

6. The following table shows the number of teachers who responded to the question:

7. The following table shows the number of teachers who responded to the question:

8. The following table shows the number of teachers who responded to the question:

9. The following table shows the number of teachers who responded to the question:

10. The following table shows the number of teachers who responded to the question:

11. The following table shows the number of teachers who responded to the question:

12. The following table shows the number of teachers who responded to the question:

13. The following table shows the number of teachers who responded to the question:

Derived Variable Name: ATDMHW

Variable Label: Mathematics Instructional Hours per Week

Fourth Grade

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Derived Variable Name: ATDMO NU

Variable Label: Pct Students Taught Number Topics

Fourth Grade

Title: Final Reading Exhibits

Relevance: 8.8

Procedure:

Based on the data from the Student, Home, Teacher, and School Questionnaire, the following variables were derived from the data. The variables are listed in the table below. The variables are listed in the table below. The variables are listed in the table below.

BL-07A\_

C: "I have read at least one book in the last year." (A: BL07AA),  
 A: "I have read at least one book in the last year." (A: BL07AB),  
 C: "I have read at least one book in the last year." (A: BL07AC),  
 A: "I have read at least one book in the last year." (A: BL07AD),  
 C: "I have read at least one book in the last year." (A: BL07AE),  
 A: "I have read at least one book in the last year." (A: BL07AF),  
 C: "I have read at least one book in the last year." (A: BL07A ),  
 A: "I have read at least one book in the last year." (A: BL07A )

BL-07A\_1: "I have read at least one book in the last year." (A: BL07A\_1)

BL-07A\_2: "I have read at least one book in the last year." (A: BL07A\_2)

BL-07A\_3: "I have read at least one book in the last year." (A: BL07A\_3)

Derived Variable Name: ATDMO GE

Variable Label: Pct Students Taught Geo and Meas Topics

Fourth Grade

B. \_\_\_\_\_

C. \_\_\_\_\_

D. \_\_\_\_\_

E. \_\_\_\_\_ (A B\_L07BA),

F. \_\_\_\_\_ (A B\_L07BB),

G. \_\_\_\_\_ (A B\_L07BC),

H. \_\_\_\_\_ (A B\_L07BD),

I. \_\_\_\_\_ (A B\_L07BE),

J. \_\_\_\_\_ (A B\_L07BF),

K. \_\_\_\_\_ (A B\_L07B )

L. \_\_\_\_\_



Derived Variable Name: ATDMO\_DA

Variable Label: Pct Students Taught Data Topics

Fourth Grade

B. ~~\_\_\_\_\_~~ \_\_\_\_\_ (A B\_L07CA),  
 C. ~~\_\_\_\_\_~~ \_\_\_\_\_ (A B\_L07CB),  
 D. ~~\_\_\_\_\_~~ \_\_\_\_\_ (A B\_L07CC)

B\_L07C\_:

\_\_\_\_\_ (A B\_L07CA),

D. \_\_\_\_\_ (A B\_L07CB),

D. \_\_\_\_\_ (A B\_L07CC)

\_\_\_\_\_;"\_\_\_\_\_";"\_\_\_\_\_";"\_\_\_\_\_";

FB. ~~\_\_\_\_\_~~ \_C\_ ~~\_\_\_\_\_~~



Derived Variable Name: ATDS06PH

Variable Label: Pct Students Taught Phy Sci Topics

Fourth Grade

B. \_\_\_\_\_

C. \_\_\_\_\_ (2)



# Section 4

## Fourth Grade – School Questionnaire

Derived Variable Name: ACDG03

Variable Label: School Composition by Student Backgd

Fourth Grade

Title: Final Report - E hibid L Re n b d hcdE

C E B

## Procedure

B

A C -3 (ACB\_03A\_, ACB\_03B)  
:"0\_10%";"11\_25%";"26\_50%";"51\_50%"1 (ACB\_03A <=2 ("0\_10%" "11\_25%")\_, ACB\_03B >=3 ("26\_50%";"51\_50%")) =, A\_9  
D.3 (ACB\_03A >=3 ("26\_50%";"51\_50%")\_, ACB\_03B <=2 ("0\_10%" "11\_25%")) =, A\_9  
D.

2 (A\_9) =, A\_9 D.



Derived Variable Name: ACDG09

Variable Label: School Library Books

Fourth Grade

Title: Final Release

Date: 2012

Reference:

IEA, 2001, p. 5.13;

IEA, 2001, p. 5.12

Procedure:

Based on the following question:

Do you have any books at home? (ACB\_09)

Response categories: "1", "2", "3", "4"

A derived variable was created based on the following question: (ACB\_09A) How many books do you have at home? (ACB\_09A)

Response categories: "250 or less"; "251-500"; "501-2,000"; "2,001-5,000"; "5,001-10,000"; "more than 10,000"

A derived variable was created based on the following question:

1 (ACB\_09=1 ("1")) → ACB\_09A&gt;4 ("5,001-10,000" → "more than 10,000") = more than 5,000 books

2 (ACB\_09=1 ("1")) → ACB\_09A=3 → 4 ("501-2,000" → "2,001-5,000") = 501-5,000 books

3 (ACB\_09=1 ("1")) → ACB\_09A&lt;3 ("250 or less" → "251-500") = 500 books or less

4 (ACB\_09=2 ("2")) = more than 500 books

1 = more than 5,000 books, 2 = 500-5,000 books, 3 = 500 books or less

4 = more than 500 books



Derived Variable Name: ACDGCMP

Variable Label: Computer Availability for Instruction

Fourth Grade

**Procedure****Binary Variable Construction:**

1. The variable `ACB_02` was created from the variable `ACB_02` in the 2011 data set.

2.  $(ACB_02 = 1) = 1$

3. The variable `ACB_07` was created from the variable `ACB_07` in the 2011 data set.

4.  $(ACB_07 = 0) = 1$

5. The variable `ACDGCMP` was created from the variables `ACB_02` and `ACB_07` in the 2011 data set.

1.  $(ACB_02 = 1 \text{ AND } ACB_07 = 0) = 1$  `ACDGCMP = 1-2`

2.  $(ACB_02 = 0 \text{ AND } ACB_07 = 1) = 1$  `ACDGCMP = 3-5`

3.  $(ACB_02 = 0 \text{ AND } ACB_07 = 0) = 1$  `ACDGCMP = 6`

4.  $(ACB_07 = 0) = 1$

Derived Variable Name: ACDG06HY

Variable Label: Total Instructional Hours per Year

Fourth Grade

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Background information on the derived variable:

Variable derived from TIMSS 2011 School Questionnaire, Q6A (ACB\_06A)





# Section 5

## Eighth Grade – Student Questionnaires

Derived Variable Name: BSDG05

Variable Label: Number of Home Study Supports

Eighth Grade

Title: Final Release

File Name: Final Release; Country: United States; Data Source: IEA; Study: TIMSS; Grade: 8; Survey: 2011

## Procedure

B<sub>05D</sub> = 2011 IEA TIMSS Final Release; Variable: Number of Home Study SupportsD<sub>05D</sub> = 2011 IEA TIMSS Final Release; Variable: Number of Home Study Supports?

Value Labels: 0 = 0, 1 = 1, 2 = 2, 3 = 3, 4 = 4, 5 = 5, 6 = 6, 7 = 7, 8 = 8, 9 = 9

Value Labels: 0 = 0, 1 = 1, 2 = 2, 3 = 3, 4 = 4, 5 = 5, 6 = 6, 7 = 7, 8 = 8, 9 = 9

Value Labels: 0 = 0, 1 = 1, 2 = 2, 3 = 3, 4 = 4, 5 = 5, 6 = 6, 7 = 7, 8 = 8, 9 = 9

0 (B<sub>05D</sub> = "0" & B<sub>05E</sub> = "0") = 01 ((B<sub>05D</sub> = "1" & B<sub>05E</sub> = "1") & (B<sub>05D</sub> = "2" & B<sub>05E</sub> = "2")) = 1

Value Labels: 0 = 0, 1 = 1, 2 = 2, 3 = 3, 4 = 4, 5 = 5, 6 = 6, 7 = 7, 8 = 8, 9 = 9

2 (B<sub>05D</sub> = "2" & B<sub>05E</sub> = "2") = 2

Value Labels: 0 = 0, 1 = 1, 2 = 2, 3 = 3, 4 = 4, 5 = 5, 6 = 6, 7 = 7, 8 = 8, 9 = 9









Derived Variable Name: BSDBWKHW

Variable Label: Weekly Time Spent on Biology Homework

Eighth Grade

Title: Final Release E hibit

Release in

8.31

Procedure

Biology homework time (in minutes) is measured:

1. How many minutes did you spend on biology homework last week? (B, BB33AB)

1. "E never" = 5; "3 to 4" = 3.5; "1 to 2" = 1.5; "just a few minutes" = 0.5

2. How many minutes did you spend on biology homework last month? (B, BB33BB)

1. "Less than 15" = 8

2. "15-30" = 23; "31-60" = 45; "61-90" = 75; "more than 90" = 105

3. "Less than 30" = 15; "31-60" = 45; "61-90" = 75; "more than 90" = 105

4. How many minutes did you spend on biology homework last year? (B, BB33AB)

1. ("E never") = 5

2. ("3 to 4" = 3.5

3. ("1 to 2" = 1.5

4. ("just a few minutes") = 0.5

5. ("never") = 0

5. How many minutes did you spend on biology homework last year? (B, BB33BB)

1. ("Less than 15" = 8

2. ("15-30" = 23

3. ("31-60" = 45

4. ("61-90" = 75

5. ("more than 90" = 105

6. ("more than 90" = 105

6. How many minutes did you spend on biology homework last year? (B, BB33AB)

7. How many minutes did you spend on biology homework last year? (B, BB33BB)

1. How many minutes did you spend on biology homework last year? (B, BB33AB)

2. How many minutes did you spend on biology homework last year? (B, BB33BB) &gt;= 180 (3 hours) = "3 hours or more"

3. How many minutes did you spend on biology homework last year? (B, BB33AB) &gt; 45 (1 hour) AND &lt; 180 (3 hours) = "45 to 180 minutes"

4. How many minutes did you spend on biology homework last year? (B, BB33AB) &lt; 3 (15 minutes)

5. How many minutes did you spend on biology homework last year? (B, BB33BB) &lt;= 45 (1 hour) = "45 minutes or less"

1=3 hours or more, 2=45 to 180 minutes, 3=45 minutes or less



Derived Variable Name: BSDPWKHW

Variable Label: Weekly Time Spent on Physics Homework

Eighth Grade

## Procedure

Build the following variables in the Data Editor:

1. Build the variable `B, B 33AE` (B, B 33AE)

Codebook description: "E" < 3 < 4, "3" < 4, "1" < 2, "J" < 0, " " < 0

2. Build the variable `B, B 33BE` (B, B 33BE)

Codebook description: " " < 15, "16-30", "31-60", "61-90", " " < 90

Codebook description: " " < 15, "16-30", "31-60", "61-90", " " < 90

3. Build `B, B 33AE` (B, B 33AE)

1 ("E" < 3) = 5

2 ("3" < 4, " " < 0) = 3.5

3 ("1" < 2, " " < 0) = 1.5

4 ("J" < 0, " " < 0) = 0.5

5 (" " < 0) = 0

4. Build `B, B 33BE` (B, B 33BE)

1 (" " < 15, " " < 90) = 0

2 ("15" < 15) = 8

3 ("16-30" < 15) = 23

4 ("31-60" < 15) = 45

5 ("61-90" < 15) = 75

6 (" " < 90) = 105

5. Build the variable `B, B 33AE` (B, B 33AE) and `B, B 33BE` (B, B 33BE) in the Data Editor.

6. Build the following variables in the Data Editor:

1. Build the variable `B, B 33AE` (B, B 33AE) and `B, B 33BE` (B, B 33BE) in the Data Editor. (3 < 15) = "3" < 15

2. Build the variable `B, B 33AE` (B, B 33AE) and `B, B 33BE` (B, B 33BE) in the Data Editor. A < 180 (3 < 15) = " " < 45

3. Build the variable `B, B 33AE` (B, B 33AE) in the Data Editor.

4. Build the variable `B, B 33AE` (B, B 33AE) and `B, B 33BE` (B, B 33BE) in the Data Editor. = "45" < 15





# Section 6

## Eighth Grade – Mathematics Teacher Questionnaire





Derived Variable Name: BTDG01

Variable Label: Teachers Years of Experience

Eighth Grade

B<sub>BTDG01</sub> = (B<sub>B 01</sub> - 1) \* 10 + (B<sub>B 01</sub> - 1) - 01 (B<sub>B 01</sub>):

B<sub>BTDG01</sub> = (B<sub>B 01</sub> - 1) \* 10 + (B<sub>B 01</sub> - 1) - 01 (B<sub>B 01</sub>):  
 ( )

1 (B<sub>B 01</sub> >= 20) = 20

B<sub>BTDG01</sub> (B<sub>B 01</sub> >= 10, B<sub>B 01</sub> < 20) = A<sub>BTDG01</sub> 10 B<sub>BTDG01</sub> 20

Derived Variable Name: BTDM30NU

Variable Label: Teachers Prepared to Teach Number

Eighth Grade

Title: Final National Report

7.10. Final National Report: Mathematics, Grade 8, 2007

Relevant Item

7.10

Procedure

Based on the following items, please indicate:

1. How well you understand the mathematics concepts and skills that are being tested? (1 = Not at all well, 5 = Very well)

2. How well you are prepared to teach:

C.1. The mathematics concepts and skills that are being tested. (B: B\_L30AA),

C.2. The mathematics concepts and skills that are being tested. (B: B\_L30AB),

C.3. The mathematics concepts and skills that are being tested. (B: B\_L30AC),

C.4. The mathematics concepts and skills that are being tested. (B: B\_L30AD),

C.5. The mathematics concepts and skills that are being tested. (B: B\_L30AE)

3. How well you are prepared to teach: "The mathematics concepts and skills that are being tested."

4. How well you are prepared to teach: (B: B\_L30AA, B: B\_L30AB, B: B\_L30AC, B: B\_L30AD, B: B\_L30AE), "The mathematics concepts and skills that are being tested" (C: C.1), "The mathematics concepts and skills that are being tested" (C: C.2), "The mathematics concepts and skills that are being tested" (C: C.3), "The mathematics concepts and skills that are being tested" (C: C.4), "The mathematics concepts and skills that are being tested" (C: C.5), "The mathematics concepts and skills that are being tested" (C: C.1).



Derived Variable Name: BTDM30GE

Variable Label: Teachers Prepared to Teach Geometry

Eighth Grade

Title: Final National Report

1. The following table shows the number of teachers who responded to the question, "Are you prepared to teach geometry?"

Region: Latin America

Table: 7.10

Procedure:

1. The following table shows the number of teachers who responded to the question, "Are you prepared to teach geometry?"

2. The following table shows the number of teachers who responded to the question, "Are you prepared to teach geometry?"

3. L-30C-:

4. The following table shows the number of teachers who responded to the question, "Are you prepared to teach geometry?"

5. The following table shows the number of teachers who responded to the question, "Are you prepared to teach geometry?" (B L-30CA),

6. The following table shows the number of teachers who responded to the question, "Are you prepared to teach geometry?" (B L-30CB),

7. The following table shows the number of teachers who responded to the question, "Are you prepared to teach geometry?" (B L-30CC),

8. The following table shows the number of teachers who responded to the question, "Are you prepared to teach geometry?" (B L-30CD),

9. The following table shows the number of teachers who responded to the question, "Are you prepared to teach geometry?" (B L-30CE),

10. The following table shows the number of teachers who responded to the question, "Are you prepared to teach geometry?" (B L-30CF)

11. The following table shows the number of teachers who responded to the question, "Are you prepared to teach geometry?"

12. The following table shows the number of teachers who responded to the question, "Are you prepared to teach geometry?" (C-2)

13. The following table shows the number of teachers who responded to the question, "Are you prepared to teach geometry?" (C-1)

14. The following table shows the number of teachers who responded to the question, "Are you prepared to teach geometry?" (C-1)

Derived Variable Name: BTDM30DA

Variable Label: Teachers Prepared to Teach Data

Eighth Grade

B<sub>BTDM30DA</sub> = 1 if teacher reports "Very Prepared" and 0 otherwise.

Are you prepared to teach the following mathematics topics? (Please check the appropriate box.)

B<sub>BTDM30DA</sub> =

B<sub>BTDM30DA</sub> = 1 if teacher reports "Very Prepared" and 0 otherwise.

Algebra (Linear Equations, Linear Functions, Systems of Equations and Inequalities) (B<sub>BTDM30DA</sub>),

Geometry (Angles, Triangles, Similar Figures) (B<sub>BTDM30DB</sub>),

Probability and Statistics (Probability, Data Analysis) (B<sub>BTDM30DC</sub>)

Very Prepared: "1" Prepared: "2" Somewhat Prepared: "3" Not Prepared: "4"

Derived Variable Name: BTDMHW

Variable Label: Mathematics Instructional Hours per Week

Eighth Grade

Title: Final Re-Ehihi

\_\_\_\_\_

Reference: 8.7

\_\_\_\_\_

Procedure:

Based on the original question, the variable was derived as:  
\_\_\_\_\_L-17AB(BL17A,  
BL17B)  
(\_\_\_\_\_)

Comments:  
\_\_\_\_\_(BL17A), \_\_\_\_\_BL17B, \_\_\_\_\_60,  
\_\_\_\_\_(BL17B), \_\_\_\_\_BL17A,  
\_\_\_\_\_(BL17B), \_\_\_\_\_60, \_\_\_\_\_. BL17A.



Derived Variable Name: BTDM23AL

Variable Label: Pct Students Taught Algebra Topics

Eighth Grade

## Title Final Release

\_\_\_\_\_

## Releasin

\_\_\_\_\_ 8.9

## Procedure

B\_\_\_\_\_

\_\_\_\_\_ C\_\_\_\_\_

B\_\_\_\_\_

\_\_\_\_\_ (B\_\_\_\_\_)

\_\_\_\_\_ (B\_\_\_\_\_)

\_\_\_\_\_ (B\_\_\_\_\_)

\_\_\_\_\_ (B\_\_\_\_\_)

\_\_\_\_\_ (B\_\_\_\_\_)

\_\_\_\_\_

F\_\_\_\_\_ B\_\_\_\_\_ (C\_\_\_\_\_ 1)

\_\_\_\_\_ (C\_\_\_\_\_ 2).

C\_\_\_\_\_ "\_\_\_\_\_"





Derived Variable Name: BTDM23DA

Variable Label: Pct Students Taught Data Topics

Eighth Grade

---

B\_23DA: Pct of students taught data topics

# Section 7

## Eighth Grade – Science Teacher Questionnaire



Derived Variable Name: BTDG01

Variable Label: Teachers Years of Experience

Eighth Grade

B\_... :2.1.1 B\_0(0.0) ... 5.2.1 20 B 2









Derived Variable Name: BTDS29ES

Variable Label: Teachers Prepared to Teach Earth Science

Eighth Grade

B\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_-29D\_\_\_\_\_

Derived Variable Name: BTDSHW

Variable Label: Science Instructional Hours per Week

Eighth Grade

Title: Final Release

Reference: IEA, 2001, p. 10

Relevance: 8.7

Reference: 8.7

Procedure:

Background: The following questions were asked of science teachers:

1. How many hours per week do you spend on science instruction? (17AB (B, B, 17A, B, B, 17B) (17AB (B, B, 17A, B, B, 17B))

Coding: The following coding scheme was used:

17AB (B, B, 17A), 17AB (B, B, 17B), 17AB (60,

17AB (B, B, 17B), 17AB (B, B, 17A,

17AB (B, B, 17B), 17AB (60, 17AB (B, B, 17A,

17AB (B, B, 17B), 17AB (60, 17AB (B, B, 17A,

Derived Variable Name: BTDBHW

Variable Label: Biology Instructional Hours per Week

Eighth Grade

Title: Final Release Ehibi

Description: Biology Instructional Hours per Week

Relevance: 8.7

Precedence:

Bibliography:

Biology Instructional Hours per Week (BTDBHW) is derived from:

Question 17A (Biology Instructional Hours per Week) from the Student, Home, Teacher, and School Questionnaire (SHTSQ) -17AB (Biology Instructional Hours per Week) (BTDBHW).

Citation: Biology Instructional Hours per Week (BTDBHW) is derived from:

Question 17A (Biology Instructional Hours per Week) from the Student, Home, Teacher, and School Questionnaire (SHTSQ) -17AB (Biology Instructional Hours per Week) (BTDBHW).

Question 17B (Biology Instructional Hours per Week) from the Student, Home, Teacher, and School Questionnaire (SHTSQ) -17AB (Biology Instructional Hours per Week) (BTDBHW).

Question 17C (Biology Instructional Hours per Week) from the Student, Home, Teacher, and School Questionnaire (SHTSQ) -17AB (Biology Instructional Hours per Week) (BTDBHW).

Question 17D (Biology Instructional Hours per Week) from the Student, Home, Teacher, and School Questionnaire (SHTSQ) -17AB (Biology Instructional Hours per Week) (BTDBHW).

Footnote: Biology Instructional Hours per Week (BTDBHW) is derived from:

Derived Variable Name: BTDCHW

Variable Label: Chemistry Instructional Hours per Week

Eighth Grade

Title: Final Release E hibit

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Re: L ca i n

\_\_\_\_\_ 8.7

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P ced e

B\_\_\_\_\_

\_\_\_\_\_ -17AB (B B, 17A, B B, 17B)  
(\_\_\_\_\_)

C\_\_\_\_\_

\_\_\_\_\_ (B B, 17A), \_\_\_\_\_ B B, 17B, \_\_\_\_\_ 60,

\_\_\_\_\_ (B B, 17B), \_\_\_\_\_ B B, 17A,

\_\_\_\_\_ B B, 17B, \_\_\_\_\_ 60, \_\_\_\_\_ B B, 17A.

\_\_\_\_\_

F\_\_\_\_\_

Derived Variable Name: BTDPHW

Variable Label: Physics Instructional Hours per Week

Eighth Grade

B.  $BTDPHW = (PHYS\_INSTR\_HRS\_WEEK) * (17A + 17B) / 17$ C.  $BTDPHW = (PHYS\_INSTR\_HRS\_WEEK) * (17A + 17B) / 17$  (17A, 17B)C.  $BTDPHW = (PHYS\_INSTR\_HRS\_WEEK) * (17A + 17B) / 17$  $BTDPHW = (PHYS\_INSTR\_HRS\_WEEK) * (17A + 17B) / 17$

Derived Variable Name: BTDEHW

Eighth Grade

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Derived Variable Name: BTDS22BI

Variable Label: Pct Students Taught Biology Topics

Eighth Grade

B<sub>1</sub> = Percent of students taught biology topics

C<sub>1</sub> = Percent of students taught biology topics

-22A<sub>1</sub>

0, 0, 0, C<sub>1</sub>, 2, 0, 0, 7, 0, 7, C<sub>1</sub>, B<sub>1</sub>

Derived Variable Name: BTDS22CH

Eighth Grade

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Derived Variable Name: BTDS22PH

Eighth Grade

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Derived Variable Name: BTDS22ES

Variable Label: Pct Students Taught Earth Sci Topics

Eighth Grade

B...  
 C... 05... 4... 4...





Derived Variable Name: BCDGCMP

Variable Label: Computer Availability for Instruction

Eighth Grade

**Title** **Final** **Re** **E** **hibi**

Computer Availability for Instruction

**Re** **L** **ca** **i** **n**

5.15;

5.14

**P** **ced** **e**

Based on the following:

"Computer Availability for Instruction" (2011), [http://nces.ed.gov/ipeds/data/ipeds\\_datacenter/ipeds\\_datacenter.asp?table=02](#), 2011.

? C -02 (BCB 02)

( )

"Computer Availability for Instruction" (2011), [http://nces.ed.gov/ipeds/data/ipeds\\_datacenter/ipeds\\_datacenter.asp?table=07](#), 2011.

(BCB 07)

( )

Computer Availability for Instruction is defined as follows:

1 (Computer Availability for Instruction  $\leq 2.5$ ) = 1 C -02 (BCB 02)

2 ( )

1 (Computer Availability for Instruction  $\leq 2.5$ ) = 1 C -02 (BCB 02)2 (Computer Availability for Instruction  $> 2.5$  and  $< 5.5$ ) = 1 C -02 (BCB 02)3 (Computer Availability for Instruction  $\geq 5.5$ ) = 1 C -02 (BCB 02)

4 (ACB 07 = 0) = 1 C -02 (BCB 02)

1 = 1 C -02 (BCB 02), 2 = 1 C -02 (BCB 02), 3 = 1 C -02 (BCB 02), 4 = 1 C -02 (BCB 02)

A -02

Derived Variable Name: BCDG06HY

Variable Label: Total Instructional Hours per Year

Eighth Grade

B<sub>CDG06HY</sub> = (BCB\_06A + BCB\_06BA + BCB\_06BB) \* 60

Variable B<sub>CDG06HY</sub> is derived from variables BCB\_06A (BCB\_06A) ( )

Variable B<sub>CDG06HY</sub> is derived from variables BCB\_06BA (BCB\_06BA, BCB\_06BB) ( )

Variable B<sub>CDG06HY</sub> is derived from variables BCB\_06BA (BCB\_06BA), BCB\_06BB (BCB\_06BB), and BCDG06HY (BCD\_06HY) ( )

Derived Variable Name: BCDG06

Variable Label: Number of Days per Week for Instruction

Eighth Grade

Title: Final Report - Ehibi

Report Number: 2018-19, 2019-20, 2020-21

Relevance: 8.7

8.7

8.7

Procedure

Based on the following question: Q106C (BCB\_06C)

Q106C (BCB\_06C) -06C (BCB\_06C)

Response options: "6", "5 1/2", "5", "4 1/2", "4", "3"

Coding scheme: BCD\_06, BCB\_06C

1 ("6") = 6

2 ("5 1/2") = 5.5

3 ("5") = 5

4 ("4 1/2") = 4.5

5 ("4") = 4

6 ("3") = 3

**TIMSS & PIRLS**  
International Study