

DERIVED CONTEXT VARIABLES

Teacher Questionnaire – Grades 4 & 5

Derived Variable Name:

ATDMMEM

Variable Label:

Teachers Majored in Primary Education and Mathematics (2023)

International Report Exhibits

Exhibits 5.1.6 – 5.1.7: Teachers Majored in Primary Education and Mathematics – Teachers' Reports

Procedure

Based on responses to the following questions in the Teacher Questionnaire administered in 2023:
TQG-04: What is the highest level of formal education you have completed? (ATBG04)

Response options: 1 = "Did not complete <Upper secondary education—ISCED Level 3>"

2 = "<Upper secondary education—ISCED Level 3>"

3 = "<Post-secondary, non-tertiary education—ISCED Level 4>"

4 = "<Short-cycle tertiary education—ISCED Level 5>"

5 = "Bachelor's or equivalent level—ISCED Level 6>"

6 = "Master's or equivalent level—ISCED Level 7>"

7 = "Doctor or equivalent level—ISCED Level 8>"

TQG-05Aa-Af: During your <post-secondary> education, what was your major or main area(s) of study?

"Education—Primary/Elementary" (ATBG05AA)

"Mathematics" (ATBG05AC)

Response options: 1 = "Yes"

2 = "No"

TQG-05Ba-Bd: If your major or main area of study was education, did you have a <specialization> in any of the following?

"Mathematics" (ATBG05BA)

Response options: 1 = "Yes"

2 = "No"

Derive ATDMMEM:

1 = "Major in primary education and major (or specialization) in mathematics" = IF (ATBG05AA = 1 AND (ATBG05AC = 1 OR ATBG05BA = 1))

2 = "Major in primary education but no major (or specialization) in mathematics" = IF (ATBG05AA = 1 AND ATBG05AC = 2 AND ATBG05BA = 2)

3 = "Major in mathematics but no major in primary education" = IF (ATBG05AA = 2 AND (ATBG05AC = 1 OR ATBG05BA = 1))

4 = "All other majors" = IF (ATBG05AA = 2 AND ATBG05AC = 2 AND ATBG05BA = 2)

5 = "No formal education beyond upper-secondary" = IF (ATBG04 = 1 OR 2)

Otherwise, set to missing.

- 1 = "Major in primary education and major (or specialization) in mathematics"
- 2 = "Major in primary education but no major (or specialization) in mathematics"
- 3 = "Major in mathematics but no major in primary education"
- 4 = "All other majors"
- 5 = "No formal education beyond upper-secondary"

Comments

See ATDLMMEM for variable derived from 2024 questionnaire data.

Derived Variable Name:

ATDLMMEM

Variable Label:

Teachers Majored in Primary Education and Mathematics (2024)

International Report Exhibits

Exhibits 5.1.6 – 5.1.7: Teachers Majored in Primary Education and Mathematics – Teachers' Reports

Procedure

Based on responses to the following questions in the Teacher Questionnaire administered in 2024:
TQG-04: What is the highest level of formal education you have completed? (ATBLG04)

Response options: 1 = "Did not complete <Upper secondary education—ISCED Level 3>"

2 = "<Upper secondary education—ISCED Level 3>"

3 = "<Post-secondary, non-tertiary education—ISCED Level 4>"

4 = "<Short-cycle tertiary education—ISCED Level 5>"

5 = "Bachelor's or equivalent level—ISCED Level 6>"

6 = "Master's or equivalent level—ISCED Level 7>"

7 = "Doctor or equivalent level—ISCED Level 8>"

TQG-05Aa-Af: During your <post-secondary> education, what was your major or main area(s) of study?

"Education—Primary/Elementary" (ATBLG05AA)

"Mathematics" (ATBLG05AC)

Response options: 1 = "Yes"

2 = "No"

TQG-05Ba-Bd: If your major or main area of study was education, did you have a <specialization> in any of the following?

"Mathematics" (ATBLG05BA)

Response options: 1 = "Yes"

2 = "No"

Derive ATDLMMEM:

1 = "Major in primary education and major (or specialization) in mathematics" = IF (ATBLG05AA = 1 AND (ATBLG05AC = 1 OR ATBLG05BA = 1))

2 = "Major in primary education but no major (or specialization) in mathematics" = IF (ATBLG05AA = 1 AND ATBLG05AC = 2 AND ATBLG05BA = 2)

3 = "Major in mathematics but no major in primary education" = IF (ATBLG05AA = 2 AND (ATBLG05AC = 1 OR ATBLG05BA = 1))

4 = "All other majors" = IF (ATBLG05AA = 2 AND ATBLG05AC = 2 AND ATBLG05BA = 2)

5 = "No formal education beyond upper-secondary" = IF (ATBLG04 = 1 OR 2)

Otherwise, set to missing.

1 = "Major in primary education and major (or specialization) in mathematics"

2 = "Major in primary education but no major (or specialization) in mathematics"

3 = "Major in mathematics but no major in primary education"

4 = "All other majors"

5 = "No formal education beyond upper-secondary"

Comments

See ATDMMEM for variable derived from 2023 questionnaire data.

Derived Variable Name:

ATDSMES

Variable Label:

Teachers Majored in Primary Education and Science (2023)

International Report Exhibits

Exhibit 5.1.10 – 5.1.11: Teachers Majored in Primary Education and Science – Teachers' Reports

Procedure

Based on responses to the following questions in the Teacher Questionnaire administered in 2023:

TQG-04: What is the highest level of formal education you have completed? (ATBG04)

Response options: 1 = "Did not complete <Upper secondary education—ISCED Level 3>"

2 = "<Upper secondary education—ISCED Level 3>"

3 = "<Post-secondary, non-tertiary education—ISCED Level 4>"

4 = "<Short-cycle tertiary education—ISCED Level 5>"

5 = "Bachelor's or equivalent level—ISCED Level 6>"

6 = "Master's or equivalent level—ISCED Level 7>"

7 = "Doctor or equivalent level—ISCED Level 8>"

TQG-05Aa-Af: During your <post-secondary> education, what was your major or main area(s) of study?

"Education—Primary/Elementary" (ATBG05AA)

"Science" (ATBG05AD)

Response options: 1 = "Yes"

2 = "No"

TQG-05Ba-Bd: If your major or main area of study was education, did you have a <specialization> in any of the following?

"Science" (ATBG05BB)

Response options: 1 = "Yes"

2 = "No"

Derive ATDSMES:

1 = "Major in education and major (or specialization) in science" = IF (ATBG05AA = 1 AND (ATBG05AD = 1 OR ATBG05BB = 1))

2 = "Major in education but no major (or specialization) in science" = IF (ATBG05AA = 1 AND ATBG05AD = 2 AND ATBG05BB = 2)

3 = "Major in science but no major in education" = IF (ATBG05AA = 2 AND (ATBG05AD = 1 OR ATBG05BB = 1))

4 = "All other majors" = IF (ATBG05AA = 2 AND ATBG05AD = 2 AND ATBG05BB = 2)

5 = "No formal education beyond upper-secondary" = IF (ATBG04 = 1 OR 2)

Otherwise, set to missing.

1 = "Major in education and major (or specialization) in science"

2 = "Major in education but no major (or specialization) in science"

3 = "Major in science but no major in education"

4 = "All other majors"

5 = "No formal education beyond upper-secondary"

Comments

See ATDLSMES for variable derived from 2024 questionnaire data.

Derived Variable Name:

ATDLSMES

Variable Label:

Teachers Majored in Primary Education and Science (2024)

International Report Exhibits

Exhibit 5.1.10 – 5.1.11: Teachers Majored in Primary Education and Science – Teachers' Reports

Procedure

Based on responses to the following questions in the Teacher Questionnaire administered in 2024:

TQG-04: What is the highest level of formal education you have completed? (ATBLG04)

Response options: 1 = "Did not complete <Upper secondary education—ISCED Level 3>"

2 = "<Upper secondary education—ISCED Level 3>"

3 = "<Post-secondary, non-tertiary education—ISCED Level 4>"

4 = "<Short-cycle tertiary education—ISCED Level 5>"

5 = "Bachelor's or equivalent level—ISCED Level 6>"

6 = "Master's or equivalent level—ISCED Level 7>"

7 = "Doctor or equivalent level—ISCED Level 8>"

TQG-05Aa-Af: During your <post-secondary> education, what was your major or main area(s) of study?

"Education—Primary/Elementary" (ATBLG05AA)

"Science" (ATBLG05AD)

Response options: 1 = "Yes"

2 = "No"

TQG-05Ba-Bd: If your major or main area of study was education, did you have a <specialization> in any of the following?

"Science" (ATBLG05BB)

Response options: 1 = "Yes"

2 = "No"

Derive ATDLSMES:

1 = "Major in education and major (or specialization) in science" = IF (ATBLG05AA = 1 AND (ATBLG05AD = 1 OR ATBLG05BB = 1))

2 = "Major in education but no major (or specialization) in science" = IF (ATBLG05AA = 1 AND ATBLG05AD = 2 AND ATBLG05BB = 2)

3 = "Major in science but no major in education" = IF (ATBLG05AA = 2 AND (ATBLG05AD = 1 OR ATBLG05BB = 1))

4 = "All other majors" = IF (ATBLG05AA = 2 AND ATBLG05AD = 2 AND ATBLG05BB = 2)

5 = "No formal education beyond upper-secondary" = IF (ATBLG04 = 1 OR 2)

Otherwise, set to missing.

1 = "Major in education and major (or specialization) in science"

2 = "Major in education but no major (or specialization) in science"

3 = "Major in science but no major in education"

4 = "All other majors"

5 = "No formal education beyond upper-secondary"

Comments

See ATDSMES for variable derived from 2023 questionnaire data.

Derived Variable Name:

ATDMHW

Variable Label:

Mathematics Instruction Hours per Week (2023)

Procedure

Based on responses to the following question in the Teacher Questionnaire administered in 2023:
TQM-01: In a typical week, how much time do you spend teaching mathematics to the students in this class? (ATBM01)
(Open-response item; response in terms of minutes)

Derive ATDMHW:
Step 1: Divide ATBM01 by 60.

Set ATDMHW to missing if source variable is missing.

Comments

See ATDLMHW for variable derived from 2024 questionnaire data.

Derived Variable Name:

ATDLMHW

Variable Label:

Mathematics Instruction Hours per Week (2024)

Procedure

Based on responses to the following question in the Teacher Questionnaire administered in 2024:
TQM-01: In a typical week, how much time do you spend teaching mathematics to the students in this class? (ATBLM01)
(Open-response item; response in terms of minutes)

Derive ATDLMHW:

Step 1: Divide ATBLM01 by 60.

Set ATDLMHW to missing if source variable is missing.

Comments

See ATDMHW for variable derived from 2023 questionnaire data.

Derived Variable Name:

ATDSHW

Variable Label:

Science Instruction Hours per Week (2023)

Procedure

Based on responses to the following question in the Teacher Questionnaire administered in 2023:
TQS-01B: Please estimate the time that you spend on science topics with students in this class.
(ATBS01B)
(Open-response item; response in terms of minutes)

Derive ATDSHW:
Step 1: Divide ATBS01B by 60.

Set ATDSHW to missing if source variable is missing.

Comments

See ATDLSHW for variable derived from 2024 questionnaire data.

Derived Variable Name:

ATDLSHW

Variable Label:

Science Instruction Hours per Week (2024)

Procedure

Based on responses to the following question in the Teacher Questionnaire administered in 2024:
TQS-01B: Please estimate the time that you spend on science topics with students in this class.
(ATBLS01B)
(Open-response item; response in terms of minutes)

Derive ATDLSHW:
Step 1: Divide ATBLS01B by 60.

Set ATDLSHW to missing if source variable is missing.

Comments

See ATDSHW for variable derived from 2023 questionnaire data.