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National Educational Panel Study

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## Competence Data in NEPS:

Overview of Measures and Variable Naming Conventions (Starting Cohorts 1 to 6)

Research Data

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## Introduction

The collection and provision of data on the development of competencies and skills throughout the life course is a key element of the German National Educational Study (NEPS). Competence measurements are implemented in all six NEPS starting cohorts covering domain-general cognitive abilities and domain-specific cognitive competencies as well as metacompetencies and stage-specific competencies.

Data from competence tests and direct measures pass through an edition process to enable users to work with scored items and test scores such as the sum or mean of correct answers. Detailed descriptions on how these competence scores are estimated can be found in the respective reports for the different competence domains at the documentation website for each starting cohort. All NEPS Scientific Use Files include a data set named xTargetCompetencies (in Starting Cohort 1 there is an additional data set xDirectMeasures with competence data of the first three survey waves) in which the prepared competence data are compiled. In contrast to other data files these competence data sets are structured in the so-called WIDE format, that is, all responses of a single respondent are represented in one row of the data matrix. Thus, the integration of information from several competence domains measured across several survey waves requires specific conventions for naming the variables.

This document facilitates the use of NEPS data for empirical analyses by providing both an overview of implemented competence measures and a description of how competence variables are named in the Scientific Use Files. In the first part, figures for all six starting cohorts show the schedule, the domains and the modus of conducted tests as well as direct measures respectively. The figures are updated and extended at regular intervals referring to already prepared and released data as well as to data that are not yet published. In the second part, the conventions for naming variables in the competence data sets are introduced. The applied nomenclature not only indicates the domain, the target group, and the sort of scoring in the variable name, but also allows for the identification of repeatedly measured competence items in a certain starting cohort or across different starting cohorts. A few examples will finally illustrate the rationale of naming competence variables in NEPS.

Any questions and suggestions regarding NEPS survey and competence data can be directed to the Research Data Center at [fdz@lifbi.de](mailto:fdz@lifbi.de).

Starting Cohort 1—Newborns (Waves 1 to 5)

Direct Measures / Competence Measures		2012/13 Wave 1 (6-8 months)	2013 Wave 2 * (16-17 months)	2014 Wave 3 (25-27 months)	2015 Wave 4 (37-39 months)	2016 Wave 5 (4 years)
<b>Domain-Specific Competencies</b>						
Vocabulary: Listening Comprehension at Word Level	vo	--	--	--	CBT	--
Mathematical Competence	ma	--	--	--	--	CBT
Scientific Competence	sc	--	--	--	--	--
<b>Stage-Specific Direct Measures</b>						
Habituation-Dishabituation-Paradigm	hd	OR	OR	--	--	--
Interaction at Home: Parent-Child Interaction	ih	OR	OR	OR	--	--
Cognitive Development: Sensorimotor Development	cd	OR	--	--	--	--
Categorization: SON-R Subtest	ca	--	--	--	CBT	--
Delayed Gratification: Executive Control	de	--	--	--	CBT	--
Digit Span: Phonological Working Memory	ds	--	--	--	CBT	--
Flanker Task: Executive Control	ec	--	--	--	--	CBT

OR= Observer Rating (based on videos), CBT= Computer-Based Test (proctored)

\* CAPI Subsample: Direct measures in wave 2 are available for a subsample of target persons only (simple random selection of 34 out of 84 initial municipalities).

Starting Cohort 1—Newborns (Waves 6 to 9) | Please note: The schedule for future waves may be subject to change.

Direct Measures / Competence Measures		2017 Wave 6 (5 years)	2018 Wave 7 (6 years)	2019 Wave 8 (7 years)	2020 Wave 9 (8 years)
<b>Domain-General Competencies</b>					
DGCF: Cognitive Basic Skills	dg	--	CBT	--	--
<b>Domain-Specific Competencies</b>					
Early Reading Competence	rx	--	--	--	CBT <sup>1</sup>
Reading Speed	rs	--	--	--	CBT
Vocabulary: Listening Comprehension at Word Level	vo	CBT	--	CBT <sup>1</sup>	--
Mathematical Competence	ma	--	CBT	--	CBT <sup>1</sup>
Scientific Competence	sc	CBT	--	CBT <sup>1</sup>	--
<b>Stage-Specific Direct Measures</b>					
Delayed Gratification: Executive Control	de	CBT	--	CBT	--
Digit Span: Phonological Working Memory	ds	--	CBT	CBT	--

OR= Observer Rating (based on videos), CBT= Computer-Based Test (proctored)

<sup>1</sup> Subsequent to the respective competence test the target persons had to assess their own test performance (Procedural Metacognition, mp).

## Starting Cohort 2—Kindergarten (Waves 1 to 4)

Competence Measures		2011 Wave 1 (4-5 years)	2012 Wave 2 (5-6 years)	2013 Wave 3 (Grade 1)	2013/14 Wave 4 (Grade 2)
<b>Domain-General Competencies</b>					
DGCF: Cognitive Basic Skills	dg	--	PBT	--	PBT
<b>Domain-Specific Competencies</b>					
Early Reading Competence <sup>1</sup>	rx	--	--	--	PBT
Reading Speed	rs	--	--	--	PBT
Vocabulary: Listening Comprehension at Word Level <sup>1</sup>	vo	PBT	--	PBT	--
Grammar: Listening Comprehension at Sentence Level <sup>1</sup>	gr	PBT	--	PBT	--
Mathematical Competence <sup>1</sup>	ma	--	PBT	PBT	PBT
Scientific Competence <sup>1</sup>	sc	PBT	--	PBT	--
Native Language Russian / Turkish: Listening Comprehension <sup>1,2</sup>	nr/nt	--	--	--	PBT
<b>Metacompetencies</b>					
Declarative Metacognition	md	--	--	PBT	--
<b>Stage-Specific Competencies</b>					
Early Knowledge of Letters	lk	--	PBT	--	--
Phonological Working Memory	ds/bd	--	PBT	--	--
Phonological Awareness	on/ri/ip	--	PBT	--	--
Delayed Gratification: Executive Control	de	--	PBT	--	--

PBT= Paper-Based Test (proctored)

<sup>1</sup> Subsequent to the respective competence test the target persons had to assess their own test performance (Procedural Metacognition, mp).

<sup>2</sup> The L1 Test for Russian and Turkish language (nr/nt) has been applied to target persons with a corresponding migration background only.

Starting Cohort 2—Kindergarten (Waves 5 to 9) | Please note: The schedule for future waves may be subject to change.

Competence Measures		2014/15 Wave 5 (Grade 3)	2015/16 Wave 6 * (Grade 4)			2018/19 Wave 9 ** (Grade 7)
<b>Domain-Specific Competencies</b>						
Reading Competence <sup>1</sup>	re	--	PBT			PBT
Vocabulary: Listening Comprehension at Word Level <sup>1</sup>	vo	PBT	--			--
Mathematical Competence <sup>1</sup>	ma	--	PBT			PBT
Scientific Competence <sup>1</sup>	sc	PBT	--			PBT
<b>Metacompetencies</b>						
Declarative Metacognition	md	PBT	--			--
ICT Literacy <sup>1</sup>	ic	PBT	--			--
<b>Stage-Specific Competencies</b>						
Orthography <sup>1</sup>	md	--	PBT			--

PBT= Paper-Based Test (proctored)

<sup>1</sup> Subsequent to the respective competence test the target persons had to assess their own test performance (Procedural Metacognition, mp).

\* Reduced testing: For individually traced target persons, competence tests were realized in the domains of reading and mathematics only in wave 6.

\*\* Reduced testing: In wave 9, a randomized allocation of competence tests with two out of the three domains (re + ma OR re + sc OR ma + sc) has been applied.

## Starting Cohort 3—Grade 5 (Waves 1 to 5)

Competence Measures		2010/11 Wave 1 (Grade 5)	2011/12 Wave 2 (Grade 6)	2012/13 Wave 3 (Grade 7)		2014/15 Wave 5 (Grade 9)
<b>Domain-General Competencies</b>						
DGCF: Cognitive Basic Skills	dg	PBT	--	--		--
<b>Domain-Specific Competencies</b>						
Reading Competence <sup>1</sup>	re	PBT	--	PBT		--
Reading Speed	rs	PBT	--	--		PBT
Vocabulary: Listening Comprehension at Word Level <sup>1</sup>	vo	--	PBT	--		--
Mathematical Competence <sup>1</sup>	ma	PBT	--	PBT		PBT
Scientific Competence <sup>1</sup>	sc	--	PBT	--		PBT
Native Language Russian / Turkish: Listening Comprehension <sup>1,2</sup>	nr/nt	--	--	PBT		--
<b>Metacompetencies</b>						
Declarative Metacognition	md	--	PBT	--		--
ICT Literacy <sup>1</sup>	ic	--	PBT	--		PBT
<b>Stage-Specific Competencies</b>						
Orthography <sup>1</sup>	or	PBT	--	PBT		PBT

PBT= Paper-Based Test (proctored)

<sup>1</sup> Subsequent to the respective competence test the target persons had to assess their own test performance (Procedural Metacognition, mp).

<sup>2</sup> The L1 Test for Russian and Turkish language (nr/nt) has been applied to target persons of a corresponding migration background only.



Starting Cohort 3—Grade 5 (Waves 6 to 9) | Please note: The schedule for future waves may be subject to change.

Competence Measures		2015 Wave 6 (Grade 9)	2016 Wave 7 (Grade 10)	2016 Wave 8 (Grade 11)	2017 Wave 9 * (Grade 12)
<b>Domain-General Competencies</b>					
DGCF: Cognitive Basic Skills	dg	PBT	--	--	--
<b>Domain-Specific Competencies</b>					
Reading Competence <sup>1</sup>	re	PBT	--	--	PBT
Listening: Listening Comprehension at Text Level <sup>1</sup>	li	PBT	--	--	--
Mathematical Competence <sup>1</sup>	ma	--	--	--	PBT
Scientific Competence <sup>1</sup>	sc	--	--	PBT	--
Native Language Russian / Turkish: Listening Comprehension <sup>1,2</sup>	nr/nt	PBT	--	--	--
<b>Metacompetencies</b>					
Declarative Metacognition	md	PBT	--	--	--
ICT Literacy <sup>1</sup>	ic	--	--	--	PBT / CBT <sup>3</sup>
<b>Stage-Specific Competencies</b>					
English Reading Competence <sup>1</sup>	ef	--	PBT	--	PBT
Scientific Thinking	st	--	--	--	PBT

PBT= Paper-Based Test (proctored), CBT= Computer-Based Test (proctored)

<sup>1</sup> Subsequent to the respective competence test the target persons had to assess their own test performance (Procedural Metacognition, mp).

<sup>2</sup> The L1 Test for Russian and Turkish language (nr/nt) has been applied to target persons of a corresponding migration background only.

<sup>3</sup> The administration of the ICT-Literacy test in wave 9 was paper-based in the institutional context and computer-based for individually traced target persons.

\* Reduced testing: In wave 9, both stage-specific competence tests (ef, st) were realized in the institutional context only (without individually traced target persons). For individually traced target persons, a randomized allocation of competence tests with two out of the three domains (re + ma OR re + ic OR ma + ic) has been applied.

## Starting Cohort 4—Grade 9 (Waves 1 to 6)

Competence Measures		2010/11 Wave 1 (Grade 9)	2011 Wave 2 (Grade 9)	2012 Wave 3 (Grade 10)		2012/13 Wave 5 (Grade 11)	
<b>Domain-General Competencies</b>							
DGCF: Cognitive Basic Skills	dg	--	PBT <sup>SNS</sup>	--		--	
FAIR: Concentration Abilities <sup>3</sup>	fa	PBT <sup>SNS</sup> only	--	--		--	
<b>Domain-Specific Competencies</b>							
Reading Competence <sup>1</sup>	re	--	PBT	--		--	
Reading Speed	rs	PBT <sup>SNS</sup>	--	--		--	
Vocabulary: Listening Comprehension at Word Level <sup>1</sup>	vo	PBT <sup>SNS</sup>	--	--		--	
Mathematical Competence <sup>1</sup>	ma	PBT	--	--		--	
Scientific Competence <sup>1</sup>	sc	PBT	--	--		PBT	
Native Language Russian / Turkish: Listening Comprehension <sup>2</sup>	nr/nt	--	PBT	--		--	
<b>Metacompetencies</b>							
Declarative Metacognition	md	--	PBT	--		--	
ICT Literacy <sup>1</sup>	ic	PBT	--	--		--	
<b>Stage-Specific Competencies</b>							
English Reading Competence <sup>1</sup>	ef	--	--	PBT		--	

PBT= Paper-Based Test (proctored)

<sup>1</sup> Subsequent to the respective competence test the target persons had to assess their own test performance (Procedural Metacognition, mp).

<sup>2</sup> The L1 Test for Russian and Turkish language (nr/nt) has been applied to target persons of a corresponding migration background only.

<sup>3</sup> Only administered to students in special-needs schools.

<sup>SNS</sup> Special-Needs Schools: Tests are also administered to students in special-needs schools.

Starting Cohort 4—Grade 9 (Waves 7 to 13) | Please note: The schedule for future waves may be subject to change.

Competence Measures		2013/14 Wave 7 * (Grade 12)			2016/17 Wave 10 (21 years)			2020/21 Wave 13 (25 years)
<b>Domain-General Competencies</b>								
DGCF: Cognitive Basic Skills	dg	--			CBT <sup>SNS, 2</sup>			--
<b>Domain-Specific Competencies</b>								
Reading Competence <sup>1</sup>	re	PBT			CBT <sup>3</sup>			--
Mathematical Competence <sup>1</sup>	ma	PBT			CBT <sup>3</sup>			--
Scientific Competence <sup>1</sup>	sc	--			--			CBT
<b>Metacompetencies</b>								
ICT Literacy <sup>1</sup>	ic	PBT			--			CBT
<b>Stage-Specific Competencies</b>								
English Reading Competence <sup>1</sup>	ef	PBT			--			--
Scientific Thinking <sup>1</sup>	st	PBT			--			--

PBT= Paper-Based Test (proctored), CBT= Computer-Based Test (proctored)

<sup>1</sup> Subsequent to the respective competence test the target persons had to assess their own test performance (Procedural Metacognition, mp).

<sup>2</sup> Limited to a subsample of secondary school students and students in special-needs schools.

<sup>3</sup> Split design: A subsample of secondary school students received the DGCF and either the reading or the mathematical competence test; the remaining sample received the reading and the mathematical competence test.

\* Reduced testing: In wave 7, both stage-specific competence tests (ef, st) were realized in the institutional context only (without individually traced target persons). For individually traced target persons, a randomized allocation of competence tests with two out of the three domains (re + ma OR re + ic OR ma + ic) has been applied.

<sup>SNS</sup> Special-Needs Schools: Tests are also administered to students in special-needs schools.

Starting Cohort 5—First-Year Students (Waves 1 to 14) | Please note: The schedule for future waves may be subject to change.

Competence Measures		2011 Wave 1 (2nd Sem.)				2013 Wave 5 (6th Sem.)					2014 Wave 7 (7th Sem.)					2017 Wave 12 * (13th Sem.)				
<b>Domain-General Competencies</b>																				
DGCF: Cognitive Basic Skills	dg	--				PBT/CBT/WBT					--					--				
<b>Domain-Specific Competencies</b>																				
Reading Competence <sup>1</sup>	re	PBT				--					--					CBT/WBT				
Reading Speed	rs	PBT				--					--					--				
Mathematical Competence <sup>1</sup>	ma	PBT				--					--					CBT/WBT				
Scientific Competence <sup>1</sup>	sc	--				PBT/CBT/WBT					--					--				
<b>Metacompetencies</b>																				
ICT Literacy <sup>1</sup>	ic	--				PBT/CBT/WBT					--					--				
<b>Stage-Specific Competencies</b>																				
Business Administration and Economics <sup>2</sup>	ba	--				--					PBT					--				
English Reading Competence <sup>1</sup>	ef	--				--					--					CBT/WBT				

PBT= Paper-Based Test (proctored), CBT= Computer-Based Test (proctored), WBT= Web-Based Test (unproctored)

<sup>1</sup> Subsequent to the respective competence test the target persons had to assess their own test performance (Procedural Metacognition, mp).

<sup>2</sup> Reduced testing: In wave 7, the stage-specific competence test (ba) was realized in a subsample of students and graduates of business sciences only.

\* Reduced testing: In wave 12, a randomized allocation of competence tests with two out of the three domains (re + ma OR re + ef OR ma + ef) has been applied.

Starting Cohort 6—Adults (Waves 1 to 8)

Competence Measures		2010/11 Wave 3 * (24-67 y.)	2012/13 Wave 5 ** (26-69 y.)	2014/15 Wave 7 (28-71 y.)
<b>Domain-General Competencies</b>				
DGCF: Cognitive Basic Skills	dg	--	--	CBT
<b>Domain-Specific Competencies</b>				
Reading Competence <sup>1</sup>	re	PBT	PBT	--
Reading Speed	rs	PBT	PBT	--
Vocabulary: Listening Comprehension at Word Level <sup>1</sup>	vo	--	--	CBT
Mathematical Competence <sup>1</sup>	ma	PBT	--	--
Scientific Competence <sup>1</sup>	sc	--	PBT	--
<b>Metacompetencies</b>				
ICT Literacy <sup>1</sup>	ic	--	PBT	--

PBT= Paper-Based Test (proctored), CBT= Computer-Based Test (proctored)

<sup>1</sup> Subsequent to the respective competence test the target persons had to assess their own test performance (Procedural Metacognition, mp).

\* Wave 3: Randomized allocation of reading and mathematics competence tests to split sample (50% with three domains: re, rs, ma / 50% with two domains: rs, ma or rs, re)

\*\* Wave 5: The first-surveyed target persons of the refreshment sample were tested in their reading competencies (re, rs); the target persons of the initial sample were tested in their scientific and ICT literacy competencies (sc, ic).

Starting Cohort 6—Adults (Waves 9 to 13) | Please note: The schedule for future waves may be subject to change; no final decision has yet been made on the competence measurements in wave 13.

Competence Measures		2016/17 Wave 9 * (30-73 y.)				2020/21 Wave 13 ** (34-77 y.)
<b>Domain-Specific Competencies</b>						
Reading Competence <sup>1</sup>	re	CBT				CBT
Mathematical Competence <sup>1</sup>	ma	CBT				CBT
<b>Metacompetencies</b>						
ICT Literacy <sup>1</sup>	ic	--				CBT

CBT= Computer-Based Test (proctored)

<sup>1</sup> Subsequent to the respective competence test the target persons had to assess their own test performance (Procedural Metacognition, mp).

\* Wave 9: The target persons of the refreshment sample were tested in their reading competencies (re) only, while the target persons of the initial sample were tested in their reading and mathematics competencies (re, ma).

\*\* Wave 13: The target persons of the refreshment sample will be tested in their ICT literacy competencies (ic) only, while the target persons of the initial sample will be tested in their reading and mathematics competencies (re, ma).

## Conventions for naming Competence Variables

The variable names in NEPS competence data files (xTargetCompetencies, xDirectMeasures) follow a specific nomenclature:

1. The first part of the variable name defines the competence domain, indicated by the two characters at the beginning.

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ba	Business Administration and Economics	lk	Early Knowledge of Letters
bd	Backwards Digit Span: Phonological Working Memory	ma	Mathematical Competence
ca	Categorization: SON-R Subtest	md	Declarative Metacognition
cd	Cognitive Development: Sensorimotor Development	mp	Procedural Metacognition
de	Delayed Gratification: Executive Control	nr	Native Language Russian: Listening Comprehension
dg	Domain-General Cog. Functions (DGCF): Cognitive Basic Skills	nt	Native Language Turkish: Listening Comprehension
ds	Digit Span: Phonological Working Memory	on	Blending of Onset and Rimes: Phonological Awareness
ec	Flanker Task: Executive Control	or	Orthography
ef	English Foreign Language: English Reading Competence	re	Reading Competence
fa	FAIR: Concentration Abilities	ri	Rimes: Phonological Awareness
gr	Grammar: Listening Comprehension at Sentence Level	rs	Reading Speed
hd	Habituation-Dishabituation-Paradigm	rx	Early Reading Competence
ic	Information and Communication Technology (ICT) Literacy	sc	Scientific Competence
ih	Interaction at Home: Parent-Child Interaction	st	Scientific Thinking: Science Propaedeutics
ip	Identification of Phonemes: Phonological Awareness	vo	Vocabulary: Listening Comprehension at Word Level
li	Listening: Listening Comprehension at Text/Discourse Level		

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2. The second part of the variable name defines the target group and survey wave or class level in which the item was first used, indicated by the two or three succeeding characters. Some competence tests are not designed for specific age groups, but are implemented unmodified in different cohorts and testing waves. The target group of these tests is indicated by "ci" (cohort invariant).

n1	Newborns in the first survey wave	s1	University students in the first survey wave
...	...	...	...
nX	Newborns in the Xth survey wave	sX	University students in the Xth survey wave
k1	Kindergarten children in the first survey wave	a1	Adults in the firsts survey wave
...	...	...	...
kX	Kindergarten children in the Xth survey wave	aX	Adults in the Xth survey wave
g1	Students at school in Grade 1	ci	Cohort invariant (for instruments administered unchanged in all starting cohorts)
...	...		
gX	Students at school in Grade X		

3. The third part of the variable name consists of three to four characters and defines the item number. For some competence domains these item numbers follow a certain scheme, but for most competence domains they only indicate the different items.



4. The fourth part of the variable name includes one or more additional suffixes which inform (a) about the mode of test execution if more than one survey modus has been applied for a test, (b) about item scores and overall measures of the competence score, and (c) about the repeated administration of an test item in a different testing wave or starting cohort.

_pb	Paper-based test modus (proctored)	_wb	Web/Internet-based test modus (unproctored)
_cb	Computer-based test modus (proctored)		
_c	Scored item variable (0="not solved", 1="solved") <sup>1</sup>	_sc1	Weighted Likelihood Estimate (WLE) <sup>2, 3, 4</sup>
_p	Maximum value for an item (only in SC1)	_sc2	Standard error for the WLE <sup>2, 4</sup>
_b	Minimum value for an item (only in SC1)	_sc3	Sum score <sup>2</sup>
_m	Mean value for an item (only in SC1)	_sc4	Mean score <sup>2</sup>
_s	Sum value for an item (only in SC1)	_sc5	Difference score (for Procedural Metacognition) <sup>2</sup>
_n	Number value for an item (only in SC1)	_sc6	Proportion correct score (for Procedural Metacognition) <sup>2</sup>

<sup>1</sup> Partial scored item variables are indicated by "s\_c" (e.g., rea3012s\_c: 0="0 out of 2 points", 1="1 out of 2 points", 2="2 out of 2 points").

<sup>2</sup> If there are several aggregated scores for a test available, additional letters are appended to the suffix (e.g., \_sc3a, \_sc3b).

<sup>3</sup> WLEs and their standard errors are estimated in tests that are scaled based on models of item response theory (cf. Pohl and Carstensen 2012).

<sup>4</sup> WLEs and their standard errors are corrected for test position; uncorrected WLEs and standard errors are indicated by an additional "u" in the suffix (\_sc1u, \_sc2u).

### Identification of repeated test items

Identifying repeatedly measured test items in NEPS data can be easily done by identifying competence variables with an identical word stem. If the same test item is surveyed in different testing waves or starting cohorts, the variable name is marked by an additional suffix, while the word stem always indicates the target group for which the item was initially used. The word stem is then fixed and does not change when the item is used again in later waves or other cohorts. The suffix that points to the repeated use consists of two parts: The first element indicates the starting cohort of current item administration (e.g., sc2 for the Starting Cohort 2—Kindergarten) and the second element indicates the cohort or testing wave (e.g., g1 for students at school in Grade 1).

To complete the example, the competence variable vok10067\_sc2g1\_c is a vocabulary item (vo) that was used for the first time in the first Kindergarten survey wave (k1) with the respective item number (0067). It was repeated among the target persons of Starting Cohort 2 at school in Grade 1 (\_sc2g1), and it is available as a scored item response (\_c).

### Examples

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org51001_c	scored variable from orthography test [or] → administered to Grade 5 students at school [g5] → measuring that the respective item [1001] was “solved” or “not solved” by the respondent [_c]
ics5002s_c	scored partial credit variable from ICT literacy test [ic] → implemented in the fifth university students’ survey wave [s5] → indicating whether the respective item [002] was solved by the respondent with 0, 1 or 2 points out of 2 points [s_c]
rea3_sc1 rea3_sc2	overall score for the reading test [re] → implemented in the third adults’ survey wave [a3] → representing the WLE of the test [_sc1] and the respective standard error [_sc2] → corrected for test position
mag7_sc1u mag7_sc2u	overall score for the mathematics test [ma] → administered to Grade 7 students at school [g7] → representing the WLE of the test [_sc1u] and the respective standard error [_sc2u] → uncorrected for test position
grk1_sc3	overall score for the grammar test [gr] → being tested in the first Kindergarten survey wave [k1] → indicating the sum of all solved items of this test [_sc3]
dgg9_sc3a dgg9_sc3b	overall score for the DGCF test [dg] → administered to Grade 9 students at school [g9] → indicating the sum for perceptual speed [_sc3a] and the sum score for reasoning [_sc3b] → both are overall measures of domain-general cognitive functioning
mag5q301_sc3g7_c	scored variable from mathematics test [ma] → first administered to Grade 5 students at school [g5] → current administration of this test item [q301] in Grade 7 of Starting Cohort 3 [_sc3g7] → indicating whether the item was “solved” or “not solved” [_c]
scs5131s_sc4g11_c	scored partial credit variable from scientific competence test [sc] → first implemented in the fifth university students’ survey wave [s5] → current administration of this test item [131] in Grade 11 of Starting Cohort 4 [_sc4g11] → indicating whether the item was solved with 0, 1 or 2 points out of 2 points [s_***_c]

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