



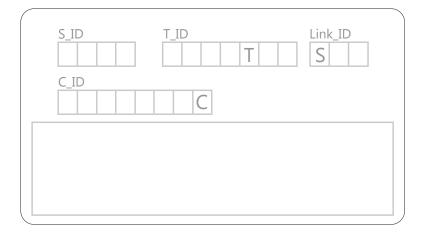
# Spring 2015 Science Teacher Questionnaire Child Level

Prepared for the U.S. Department of Education National Center for Education Statistics by:

# Westat Rockville, Maryland

Use a black or blue ball point pen to complete this questionnaire.

RETURN THIS COMPLETED QUESTIONNAIRE IN THE SEALED TYVEK® ENVELOPE DIRECTLY TO YOUR SCHOOL COORDINATOR OR AN ECLS-K:2011 STAFF MEMBER. <u>DO NOT MAIL</u> THIS QUESTIONNAIRE UNLESS YOU ARE ASKED TO DO SO BY STUDY STAFF AND ARE PROVIDED WITH AN ENVELOPE FOR MAILING.



According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this voluntary survey is 1850-0750. Approval expires 11/30/2017. The time required to complete this survey is estimated to average 12 minutes per response, including the time to review instructions, search existing data resources, gather the data needed, and complete and review the survey. If you have any comments concerning the accuracy of the time estimate or suggestions for improving this survey, or any comments or concerns regarding the status of your individual submission of this survey, please write to: Early Childhood Longitudinal Study, National Center for Education Statistics, 1990 K Street, N.W., Washington, D.C. 20006-

The collection of information in this survey is authorized by 20 U.S. Code, Section 9543. Participation is voluntary. You may skip questions you do not wish to answer, however, we hope that you will answer as many questions as you can. Your responses are protected from disclosure by federal statute (20 U.S. Code, Section 9573). All responses that relate to or describe identifiable characteristics of individuals may be used only for statistical purposes and may not be disclosed, or used, in identifiable form for any other purpose except as required by law. Data will be combined to produce statistical reports. No individual data that links your name, address, telephone number, or identification number with your responses will be included in the statistical reports.





## Dear Teacher,

This questionnaire is an important part of a major longitudinal study of children's early educational experiences beginning with kindergarten and continuing through grade 5. You have received this questionnaire because you teach **science** to one or more of the children who are participants in this study.

The Early Childhood Longitudinal Study, Kindergarten Class of 2010-2011 (ECLS-K: 2011) is collecting information from teachers of children who are in the study to investigate the relationship between children's academic progress and various school, classroom, teacher, and home characteristics. Taking part in the study is voluntary. You may stop at any time or choose not to answer a question you do not want to answer. However, only you can provide this information. Although we realize you are very busy, we urge you to complete this questionnaire as completely and accurately as possible. The information you provide is being collected for research purposes only and will be protected from disclosure to the fullest extent allowable by law (Education Sciences Reform Act of 2002, 20 U.S.C. § 9573). Information from multiple individuals will be combined to produce statistical reports; no information that identifies you will be included in any reports or provided to students, their parents, or other school staff.

This questionnaire has two parts:

- Part 1 should be completed for the child whose name is on the cover of this questionnaire.
- Part 2 has questions about your science class you only need to fill out Part 2 if there is a **red dot** next to the child's name on the cover of the questionnaire.

The instructions preceding each part of the questionnaire will guide you.

Please record your answers directly on the questionnaire by marking the appropriate answer (as instructed on page 4) or by writing your responses in the space provided. Your best estimates are acceptable answers.

THANK YOU VERY MUCH FOR YOUR HELP.



#### MARKING DIRECTIONS

PLEASE READ CAREFULLY AND USE A BLACK OR BLUE BALL POINT PEN TO COMPLETE THIS QUESTIONNAIRE. DO NOT USE PENCIL OR FELT-TIP PEN.

#### **MARKING BOXES**

It is important that you mark an "X" in the box next to your answers and print clearly.

Shown below is the correct way to mark your answers, along with examples of incorrect ways.

**Correct Mark:** 



### **Incorrect Marks:**

Light and thin, outside the box, thick or scrawled.



## How to Change an Answer:

Completely black out the box of the incorrect answer and mark an "X" in the box next to the correct answer.



#### **PRINTING ANSWERS IN BOXES**

Answers should be printed clearly and should not touch or cross any of the box lines. Do not cross zeroes or sevens. That is, do not write a zero with a line through it like this –  $\theta$ , and do not write a seven with a line through it like this – 7.

Write one number per box like this:

1 2 3 4 5 6 7 8 9 0

Write words like this:

John Smith



## **PART 1:**

Please answer the questions in Part 1 about the child identified on the cover of this questionnaire.



## **SECTION A. STUDENT INFORMATION**

Please answer the following questions about the child identified on the cover of this questionnaire.

AI.	ROW.	K YES OR NO	JN EACH
		Yes	<u>No</u>
	a. Reading/language arts		
	b. Mathematics		
	c. Science		
	d. Social studies		
A2.	How long has this child been in your science class this school year until	now? MARK C	NE RESPONSE.
	Entire school year until now		
	More than one semester but less than the entire school year until now		
	More than one quarter but less than one semester		
	Less than one quarter of the school year		
A3.	Please indicate the total number of times this child has been absent from the current school year. MARK ONE RESPONSE.	m your science	e class during
	No absences		
	1 to 4 absences		
	5 to 7 absences		
	8 to 10 absences		
	11 to 19 absences		
	20 or more absences		
A4.	Is English this child's native language? MARK ONE RESPONSE.		
	Yes (SKIP TO Q A6)		
	No		
	Don't know		



A5.	language? MARK ONE RESPONSE.
	None of the time
	Less than half of the time
	Half of the time
	More than half of the time
	Almost all the time
A6.	Overall, how would you rate this child's academic skills in SCIENCE, based on curriculum standards for his/her current grade level? MARK ONE RESPONSE.
	Below grade level
	About on grade level
	Above grade level
A7.	How often does this child work to the best of her/his ability in SCIENCE? MARK ONE RESPONSE.
	Never
	Seldom
	Usually
	Always
	re is a red dot next to the child's name on the cover of this questionnaire, please nue with Part 2.
If the	re is no red dot next to the child's name on the cover, skip to question E4 on page 20.





## **PART 2:**

To be completed <u>only</u> if there is a red dot next to the child's name on the cover of this questionnaire.

If there is no red dot next to the child's name on the cover, skip to question E4 on page 20.



### **SECTION B. SCIENCE INSTRUCTION**

Please answer the following questions for the science class in which the child identified on the cover of this questionnaire receives science instruction.

B1. From the first day of school until today, please indicate on how many days you have covered each of the following SCIENCE skills and concepts in this child's class. Please include the time during which you provide direct instruction as well as the time you spend supervising students as they work.

Please focus on the skill areas that are shown <u>in bold text</u>. (The unbolded examples are only a sample of things you may do or cover under this skill area.) MARK ONE RESPONSE ON EACH ROW.

		•					
<u> </u>	Fields of Science	Not yet taught or not taught in this grade	On 1-10 days	On 11-20 days	On 21-40 days	On 41-80 days	On more than 80 days
	a. <b>Physical science</b> , for example, understanding electricity, magnetism, energy, waves, chemistry, etc.						
	b. <b>Life science</b> , for example, learning about organisms, life cycles, food chains, ecosystems, etc.						
	c. <b>Earth science</b> , for example, learning about rocks and minerals, weather, erosion, water, volcanoes, earthquakes, etc.						
9	Scientific Method						
	d. <b>Observations and hypotheses</b> , for example, understanding the difference between observations and inferences, formulating predictions that can be tested, etc.						
	e. <b>Scientific testing</b> , for example, planning and conducting investigations, measuring using appropriate tools, demonstrating safe behavior, e	etc.					
	f. <b>Analysis and conclusions</b> , for example, analyzing the results of a scientific investigation and determining whether the results support the initial prediction, etc.						
9	Science, Engineering and Technology						
	g. <b>Interdependence of science, technology and engineering</b> , for example, exploring how scientific discoveries lead to the development of new technologies, new technologies lead to new scientific discoveries, etc.						
	h. <b>Engineering concepts</b> , for example, identifying a simple design problem that can be solved through the development of an object, tool, process, or system; etc.						



# **B2.** How often do the children in this class engage in the following science activities? MARK ONE RESPONSE ON EACH ROW.

		Almost every day	Once or twice a week	Once or twice a month	Less than once a month or never
a.	Read a science textbook				
b.	Discuss science in the news				
c.	Generate and test hypotheses				
d.	Work with other children on a science activity or project				
e.	Use science equipment (e.g., magnifying glass, scales, thermometers)				
f.	Prepare a written science report				
g.	Engage in hands-on activities or investigations in science				
h.	Talk about measurements and results from children's hands-on activities				
i.	Take a science test or quiz				
j.	Use library resources for science				
k.	Use computers for science				
I.	Use the Internet for science				



## **SECTION C. CLASSROOM AND STUDENT CHARACTERISTICS**

Please answer the following questions for the science class in which the child identified on the cover of this questionnaire receives science instruction.

<b>C1</b> .	As o	f today's date, how many children								
	WRIT	WRITE NUMBER IN BOX. IF THERE ARE NO CHILDREN IN A PARTICULAR CATEGORY, WRITE "0."								
			Number of children							
	a.	Are currently enrolled in this class?								
	b.	Are boys?								
	C.	Are girls?								
C2.	Wha	t grade levels are included in this class? MARK ALL THAT APPLY.								
	a.	2nd grade or lower								
	b.	3rd grade								
	C.	4th grade								
	d.	5th grade								
	e.	6th grade or higher								
C3.		many of the children in this class are repeating their grade this you	ear? WRITE NUMBE	ER IN BOX						
		Number of children repeating their grade								



C4.	How	many	children	in	this	class	

WRITE NUMBER IN BOX. IF NONE, WRITE "0."

	Number of children
a. Are classified as Gifted and Talented?	
b. Are participating in a Gifted and Talented program?	
How many children in this class are absent on an average day? WRITE NUM WRITE "0."	1BER IN BOX. IF NONE,
Number of children absent on an average day	
How many children in this class are below grade level, about on grade level in science?	el, or above grade level
WRITE NUMBER IN BOX. IF NONE, WRITE "0."	
Number of children below grade level	
Number of children about on grade level	
Number of children above grade level	
At this point in the school year, how would you rate the behavior of the change of the	nildren in this class?
Group misbehaves very frequently and is almost always difficult to handle.	
Group misbehaves frequently and is often difficult to handle.	
Group misbehaves occasionally.	
Group behaves well.	
Group behaves exceptionally well.	
	b. Are participating in a Gifted and Talented program?  How many children in this class are absent on an average day? WRITE NUM WRITE "0."  Number of children absent on an average day  How many children in this class are below grade level, about on grade level in science?  WRITE NUMBER IN BOX. IF NONE, WRITE "0."  Number of children below grade level  Number of children about on grade level  Number of children above grade level  At this point in the school year, how would you rate the behavior of the chark ONE RESPONSE.  Group misbehaves very frequently and is almost always difficult to handle.  Group misbehaves frequently and is often difficult to handle.  Group misbehaves occasionally.  Group behaves well.



C8. Approximately what percentage of the students in this class demonstrate the following problems MARK ONE RESPONSE ON EACH ROW.						ems?						
		_	0%	1-10%	11-25%	26-50%	51-75%	76-100%				
	a.	Have difficulty paying attention in class										
	b.	Lack self-control (disruptive behavior)										
	C.	Are rejected by peers										
	d.	Do not accept authority										
		rce: Abry, T., Swanson, J., and Fabes, R. A. (2012). <i>The C</i> ublished measure. Adapted with permission.	Classroom E	nvironment Si	tudent Difficul	ties Scale. Ariz	zona State Ur	iiversity,				
C9.		How many children in this class have a diagnosed disability? WRITE NUMBER IN BOX. IF NONE, WRITE "0."										
		Number of children										
C10.	Do you have any children who are English language learners in this class? (English language learners are children whose native language is one other than English and whose skills in listening, speaking, reading, or writing English are such that they have difficulty understanding school instruction in English.) MARK ONE RESPONSE.											
		No (SKIP TO Q D1)										
C11.		v many English language learners (ELLs) NE, WRITE "O."	do you h	ave in this	class? WR	RITE NUMB	ER IN BOX.	IF				
		Number of FLL children										



D2.

## SECTION D. CLASSROOM INSTRUCTION AND EVALUATION

Please answer the following questions for the science class in which the child identified on the cover of this questionnaire receives science instruction.

D1.	In a typical day, how much time do c	hildren in this science class spend in the following activities?
	MARK ONE RESPONSE ON EACH ROW.	DO NOT INCLUDE LUNCH OR RECESS BREAKS.

		No time	1-15 minutes	16-30 minutes	31-45 minutes	Longer than 45 minutes				
a.	Working independently									
b.	Working on individual tasks under teacher direction									
C.	Working with peers under teacher direction									
d.	Working in small groups with teacher									
e.	Teacher lecture with large group and/or large group discussion led by teacher									
who	Do any of the following staff members provide direct instruction to students in this science class who are struggling or at risk of failure in science? INCLUDE STAFF OTHER THAN YOURSELF WHO PROVIDE DIRECT INSTRUCTION EITHER IN THIS CLASS OR IN A PULL-OUT SETTING. EXCLUDE PARAPROFESSIONALS/AIDES. MARK YES OR NO ON EACH ROW.									
					Yes	<u>No</u>				
a.	A SCIENCE specialist/interventionist who training in science instruction	has speci	alized							
b.	A special education teacher									



D4.

D3. In this class, how frequently do you or your students use computers or the following electronic devices for instructional purposes in science? Please include any desktop, laptop, or other computer-type devices. MARK ONE RESPONSE ON EACH ROW.

		Not available	Never	Rarely	Sometimes	Often						
a.	Desktop or laptop computer or other computer-type device (for example, iPad/other tablet, eReader such as Kindle or Nook)											
b.	Cell phone/smartphone (for example, iPhone)											
C.	Interactive whiteboard (for example, SMART Board, Activboard)											
d.	Document camera or document projector (for example, ELMO, HoverCam)											
e.	LCD or DLP projector											
f.	Digital camera (still or video)											
g.	CD player, MP3 player/iPod, cassette/tape player											
h.	DVD player, VCR, or video streaming device (for example, Roku)											
i.	TV											
j.	Student response system (for example, clickers, responders, ActiVote, ActivExpression)											
k.	Microphone or classroom audio sound system (for example, TopCat, Redcat)											
coui	In an average week, how many days a week is science homework assigned in this class? Please count homework assigned over the weekend as one day. MARK ONE RESPONSE.											
=	0 days (SKIP TO Q D6)											
=	1 day											
=	2 days 3 days											
$\equiv$	a days											
=	5 days											



<b>D</b> 5.		days wnen nomework is assigr homework in science? MARK O			do you e	xpect chil	aren in th	is class to	spena
		1 to 10 minutes							
		11 to 20 minutes							
		21 to 30 minutes							
		More than 30 minutes							
D6.		his class, how often do you use RK ONE RESPONSE ON EACH RO		assessme	nt in SCIE	NCE for th	ne followii 5 to 8	ng purpos 1 to 2	es? 1 to 2
			Never	Once a year	2 times a year	times a year	times a year	times a month	times a week
	a.	To evaluate how well each student is responding to the core curriculum provided in the general education classroom							
	b.	To monitor each student's progress on specific skills over the school year							
	C.	To identify the deficits in specific skills of struggling students							
	d.	To monitor the progress of students who fall below benchmark levels							
	e.	To determine whether students need placement in a more or less intensive level of instruction							



Please answer the following question about the school's practices regarding science.

**D7.** For each of the following statements about SCIENCE indicate how strongly you agree or disagree.

MARK ONE RESPONSE ON EACH ROW.

		Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree	Don't know
a.	This school has a set of clear, predetermined, grade-level benchmarks (that is, cut scores, goals/targets, or percentiles) that are used to determine which students are struggling or at risk of failure in science in <u>fourth grade</u> .						
b.	This school has clear, predetermined criteria for determining the level of intervention fourth-grade students will receive in science.						
C.	This school has clear, predetermined criteria for determining when <u>fourthgrade students</u> no longer need a science intervention.						



## **SECTION E. STAFF ACTIVITIES**

E1.	<b>Did</b> you participate in any professional development* within the last <b>12</b> months? <i>MARK ONE RESPONSE.</i>								
		Yes							
	No (SKIP TO Q E3)								
	,	Professional development may include continu workshops, or in-service training; staff meetings receiving coaching or mentoring.	_						
E2.		w often did you participate in professional d he last 12 months? MARK ONE RESPONSE ON	-		es covering	the foll	owing topic		
			Never	Once	2 times	3 to 4 times	More than 4 times		
	a.	How to use assessment data to identify students who are struggling or at risk of failure in SCIENCE							
	b.	How to use and apply assessment data to guide SCIENCE instruction							
	C.	How to implement the SCIENCE curriculum							
E3.	yea	re you received support from any of the follows:  R. MARK ONE RESPONSE ON EACH ROW. IF TO COLUMN.	_		_	TO YOU pport eived			
				received	availa	ble	available		
	a.	A school or district staff member whose role is to provide ongoing training and support to classroom teachers in the delivery of effective SCIENCE instruction							
	b.	A school or district staff member who provides ongoing training and support to classroom teachers in the delivery of effective behavioral supports				]			
	C.	A school or district staff member who support teachers in collecting, organizing, and managi assessment data				]			
	d.	A school or district staff member who support teachers in the interpretation and use of assest data to guide instruction.				]			



**E4.** Date Questionnaire Completed:

MONTH DAY YEAR

THANK YOU FOR YOUR COOPERATION!







For Office	Use	Onl	y

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