

# ELPA Validity Evaluation Instrument:

Teacher Survey on ELL Content Instruction and  
Assessment  
(Science Content Area)



Washington  
Idaho  
Indiana  
Montana  
Oregon



edCount, LLC  
Center for Assessment  
UCLA  
Synergy Enterprises, Inc  
PIRE

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## About EVEA

The U.S. Department of Education funded Enhanced Assessment Grant *Evaluating the Validity of English Language Proficiency Assessments* (EVEA; CFDA 84.368) was awarded to the Office of the Superintendent for Public Instruction of the State of Washington in fall 2009. The project brought together five states – Idaho, Indiana, Montana, Oregon, and Washington – to work on collaborative and independent validity plans for English language proficiency assessments (ELPAs) over an 18-month period. During the EVEA funding period, none of the partner states belonged to an existing ELPA consortium; rather each had worked with commercial test developers to create state-wide ELPAs that are aligned with their state English language development (ELD) standards. The main project goal was for each state to create a validity argument for its ELPA system. Additional project outcomes included:

- Building individual State Interpretive Arguments for the validity of each state's ELPA;
- Building a Common Interpretive Argument for any ELPA;
- Designing a set of studies and instruments to support and pilot test these arguments; and
- Making instruments publically available at the close of the project for the wider education community to access.

This research instrument is one product of these efforts.

## Collaborating institutions

edCount, LLC

The National Center for the Improvement of Educational Assessment (NCIEA, the Center for Assessment)

The Graduate School of Education and Information Studies (GSE&IS) at the University of California, Los Angeles (UCLA)

Synergy Enterprises, Inc. (SEI)

The Pacific Institute for Research and Evaluation (PIRE)

## Authors

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## **Research Objective**

States may be interested in learning how instructors use ELPA scores to inform their instruction. The design of the state's ELPA and larger assessment system may support specific score uses but not others; states may also benefit from knowing how teachers would like to use scores, or are already using scores, in case the ELPA or assessment system could be modified to make such uses more valid.

This document outlines the claims, underlying assumptions, and research questions that can begin to lay the foundation for a state's efforts to determine whether and how teachers are using the scores from its ELPA. In addition, it provides sample research questions for a survey that may be used to collect information from teachers about their use of ELPA scores. The sample questions focus on science instruction; states that are interested in collecting information about other subject areas could modify the questions accordingly.

### **Claim**

ELPA scores/performance levels are used appropriately to inform decisions related to the assessment system goals.

#### *Underlying Assumptions*

Teachers accurately interpret their state ELPA and use the results appropriately for class placements so that students are acquiring the academic language skills necessary to participate fully in instructional discourse (science content area example) conducted in English.

The interpretation of ELPA scores, and the conversion of these scores into levels of ELP, is done accurately by teachers and school administrators so that students acquire the academic English necessary for school achievement (science example).

The level of proficiency set by the ELPA is a performance level commensurate with proficient English abilities.

### **Example Research Questions**

Research Question 1: In what ways do teachers use the information yielded by the state ELPA for instruction of ELL students? And are these ways different for bilingual/ESL program teachers teaching science versus general education teachers teaching science?

Research Question 2: As a result of being identified as achieving at a proficient level on the ELPA, do former ELL students have the academic language skills necessary to participate fully in instructional discourse conducted in English?

### **Method**

States may begin to address the research questions above by circulating a survey to collect descriptive information about teachers' instructional practices and uses of ELPA scores. The survey included here could be administered to all teachers who teach science with EL students in their classrooms. Teachers are prompted for information about their instructional and assessment practices and to indicate if they make adaptations to their practices for ELL students specifically. Questions consist of forced-choice and multiple-option questions along with a series of likert scales (0-5 scales) eliciting teacher ratings of the

frequency, importance and emphases they place on their various assessment and instructional practices. Teachers are encouraged to write in responses that do not match any of the prepared answer with an “other” option for most questions. The different sections of the survey request responses on: (1) teacher and student demographic information; (2) assessment practices; (3) teacher beliefs about language proficiency; (4) instructional practices. A final question elicits open-ended commentary on the instruction and assessment of ELL students in the science field.

The 29-question survey takes approximately 20-25 minutes to complete.

Unlike other EVEA instruments, the Teacher Survey on ELL Content Instruction and Assessment is an adaptation of the Opportunity to Learn and Academic Language Exposure Survey developed by the National Center for Research on Evaluation, Standards & Student Testing (CRESST) in 2010. The original CRESST survey was piloted<sup>1</sup> and the results that focused on the factor structure of items and correspondences with a small number of researcher observations of classrooms can be found at <http://www.cse.ucla.edu/products/reports/R767.pdf>.

Based on the findings of that pilot work, EVEA project members created an adapted version of the survey on which they reduced the number of questions, reduced item choices within questions, simplified wording, and created several new questions about English language proficiency specifically for the EVEA project.

## **Analysis**

States can start by calculating descriptive statistics from the teacher responses they collect. Where applicable, states may wish to test for statistical significance between response patterns from various subgroups on various demographic variables. In addition, tests of statistical significance can be conducted to determine whether certain subgroups of interest differ (e.g., Bilingual/ESL teachers and general educators with ELLs in their science classes) in their reports of providing instructional and assessment adaptations specific to ELL students. States may also run qualitative analyses of responses to the open-ended final question of the survey (“*As a final step, we would like to ask if you have any further comments and suggestions for the important topics of ELL instruction, assessment and/or science learning*”). Such analyses may help the state to identify themes and provide sample comments to exemplify the range of comments the survey engendered.

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<sup>1</sup> Martinez, J-F., Bailey, A.L., Kerr D., Huang B. H.-H., & Beauregard S., (2010). Measuring Opportunity to Learn and Academic Language Exposure for English Language Learners in Elementary Science Classrooms. IES PR/Award Number R305A050004. (Currently available as CSE Tech. Report No. 767). Los Angeles: University of California, National Center for Research on Evaluation, Standards, and Student Testing (CRESST).

# Teacher Survey on EL Content Instruction and Assessment (EVEA project)

## **Background Information**

### **1. How long have you been teaching?**

Number of years \_\_\_\_\_

### **2. Highest degree attained: (Please check one)**

Associate

Bachelor

Master

PhD

EdD

Other (please specify) \_\_\_\_\_

### **3. Major area of study for that degree: (Please check one)**

Humanities

Social Sciences

Mathematics

Physical Sciences

Biological Sciences

Other (please specify) \_\_\_\_\_

### **4. Teaching credential(s) held: (Please check all that apply)**

Elementary

Secondary

Bilingual

ESL

Emergency

Other (please specify) \_\_\_\_\_

### **5. Number of in-service professional development hours focusing on:**

General pedagogy/teaching methods (hours) \_\_\_\_\_

Science content/curriculum (hours) \_\_\_\_\_

1. Science teaching methods (hours) \_\_\_\_\_

2. ELL teaching methods (hours) \_\_\_\_\_

## Teacher Survey on EL Content Instruction and Assessment (EVEA project)

**6. Which grade do you currently teach? (If teaching multiple grades and classes, please choose one grade and class to respond to throughout)**

Grade \_\_\_\_\_

**7. Which of the following best describes the program or classes in which you currently teach? (Please check one)**

- Teach general education science and DO NOT have English language learners (ELLs) in my regular classes
- Teach general education science and DO have ELLs in my regular classes
- Teach ELL or bilingual content area classes (including science)
- Teach in ELL pull out program only (no science teaching): SKIP TO QUESTION 29
- General education teacher but do not engage in any science teaching: SKIP TO QUESTION 29
- Other (please specify) \_\_\_\_\_

**8. How long have you been teaching science at this grade?**

Number of years \_\_\_\_\_

**9. How many years have you been teaching with ELL students in your classes? (If never, please enter 0)**

Number of years \_\_\_\_\_

**10. Are you proficient in a language other than English? (Please check all that apply)**

- No
- Spanish
- Cantonese
- Mandarin
- Vietnamese
- Russian
- Other (please specify) \_\_\_\_\_

## Teacher Survey on EL Content Instruction and Assessment (EVEA project)

### **Student Demographics**

**11. How many students in your science class are girls/boys?**

Number of girls \_\_\_\_\_

Number of boys \_\_\_\_\_

**12. How many students in your science class are ELL students? (If none, please enter 0)**

Number of ELL students \_\_\_\_\_

**13. How many students in your science class are from economically disadvantaged backgrounds? (If none, please enter 0)**

Number of students \_\_\_\_\_

**14. Based on your “State Achievement Test for Reading,” what percentages of students in your science class are at the following performance levels (or equivalent levels in your state):**

Below basic (Level 1) (%) \_\_\_\_\_

Basic (Level 2) (%) \_\_\_\_\_

Proficient (Level 3) (%) \_\_\_\_\_

Advanced (Level 4) (%) \_\_\_\_\_

**15. If relevant, what percentage of your current students who exited language services (former ELL students) have acquired the academic English language skills necessary to participate fully during your science instruction?**

% of ELL students with skills to participate \_\_\_\_\_

## Teacher Survey on EL Content Instruction and Assessment (EVEA project)

### **Instructional Resources**

**16. Which of the following resources are available to you during science classes? (Please check all that apply)**

- Science textbooks
- Worksheets
- Science trade books/newspapers/magazines
- Lab equipment/materials
- Science-specific videos/software/Internet
- Science vocabulary charts
- Concept or Procedure posters
- Dictionaries or Thesauri
- Teaching assistant
- ESL/bilingual aide
- District provided lesson plans
- A progression of language skills for science
- Science assessments to guide instruction
- Other (please specify) \_\_\_\_\_

# Teacher Survey on EL Content Instruction and Assessment (EVEA project)

## **Instructional Practices**

**17. Approximately how frequently do students in your science class do the following? (Please choose from 0-5 for each reply and check corresponding boxes if you make any kinds of adaptation for ELs)**

**(0 = Never; 1 = Less than once a month; 2 = 1-2 times a month; 3 = Once per week; 4 = Several times a week; 5 = Every day)**

	0	1	2	3	4	5	EL*
Listen to lecture/teacher-directed instruction							
Read a science textbook							
Read science articles (magazine, newspaper, on-line)							
Complete worksheets							
Manipulate materials; hands-on activities							
Discuss science topics and ideas							
Complete homework tasks							
Watch science-related videos							
Explain their thinking							
Formulate questions							
Provide constructive feedback to one another							
Present oral science reports							
Write science reports							
Use science-related software or internet resources							
Create graphic representations (diagrams, models, simulations)							
Work on individual projects							
Collaborate on group projects							
Work one-on-one with a teacher or an aide							
Other (please specify below)							

\*EL = Make EL Adaptations

IMPORTANT: If you checked any boxes for EL ADAPTATIONS, please briefly explain below:

## Teacher Survey on EL Content Instruction and Assessment (EVEA project)

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**18. How frequently do you rely on the following academic English instructional strategies during science (e.g., language needed to access and engage in the curriculum)? (Please choose from 0-5 for each reply and check corresponding boxes if you make any kinds of adaptation for ELs)**

	Never					Always	
	0	1	2	3	4	5	EL*
Provide explicit language objectives, in tandem with science knowledge/skill objectives							
Provide explicit links between new concepts and students' background experiences and past learning							
Provide opportunities to practice academic language in science writing							
Provide opportunities to practice academic language orally and participate in scientific discourse (e.g., mock debates)							
Provide opportunities to witness the authentic discourse of scientists (e.g., video, classroom visits from botanists, etc.)							

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## Teacher Survey on EL Content Instruction and Assessment (EVEA project)

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**19. Considering your lesson plans or other preparation for science classes, how frequently do you include the following academic language functions (i.e., the ways in which you use language during science teaching)? (Please choose from 0-5 for each reply and check corresponding boxes if you make any kinds of adaptation for ELs)**

	Never					Always	
	0	1	2	3	4	5	EL*
Defining scientific vocabulary and phrases							
Describing scientific processes or phenomena							
Explaining scientific processes or phenomena							
Classifying scientific information and phenomena							
Causal reasoning with scientific phenomena (cause and effect)							
Labeling of scientific processes or objects							
Enumerating (listing) of science facts and processes							
Generating hypotheses							
Justifying claims							
Comparing and contrasting data							
Presenting analyses and results (oral and written)							
Debating ideas							
Predicting scientific outcomes							
Generalizing scientific processes or facts to other scientific phenomena							

\*EL = Make EL Adaptations

IMPORTANT: If you checked any boxes for EL ADAPTATIONS, please briefly explain below:

# Teacher Survey on EL Content Instruction and Assessment (EVEA project)

## Student Learning

**20. To what extent do you emphasize the following for students during science? (Please choose from 1-5 for each reply and check corresponding boxes if you make any kinds of adaptation for ELs)**

	No emphasis					Strong emphasis		EL*
	0	1	2	3	4	5		
Knowing science facts and terminology								
Understanding science concepts								
Practicing test-taking skills or memorizing test items								
Developing an interest in science								
Learning the relevance of science for society and everyday-life applications								
Explaining connections between different scientific concepts								
Handling instruments, developing lab skills								
Learning and practicing the scientific method (set up hypothesis, collect and analyze data)								
Using technology as a scientific tool								
Generating hypotheses and inferences based on scientific knowledge								
Developing general academic vocabulary (e.g., analyze, predict)								
Developing specialized scientific vocabulary (e.g., pollination, lava)								
Developing comprehension skills (listening and reading)								
Developing necessary grammatical structures to talk and write about science								
Essay writing skills using science topics								
Explaining basic scientific concepts accurately and effectively								
Using evidence to explain and justify scientific notions and ideas								
Asking questions								
Using problem-solving strategies								
Making deductions from evidence								
Providing constructive feedback to peers								
Using constructive feedback from peers								
Oral building on other students' ideas								
Drawing connections among other students' ideas								
Other (please specify below)								

\*EL = Make EL Adaptations

IMPORTANT: If you checked any boxes for EL ADAPTATIONS, please briefly explain below:

## ELL-Specific Practices

**21. In your opinion, how reliant is student science learning on the following aspects:**

	Not reliant	0	1	2	3	4	5	Very reliant
A student's oral language proficiency in English								
A student's reading and writing skills in English								
A teacher's oral language proficiency in English								
A teacher's reading and writing skills in English								

**22. Are students in your science classroom grouped based on language background? (Please check all that apply)**

- Yes, each ELL student is paired with a native English speaker
- Yes, ELL students are grouped together by language proficiency level
- Yes, all ELL students are placed in one group regardless of proficiency and native language
- Yes, ELL students with the same language (e.g., all Spanish-speakers) are placed in one group
- Yes, ELL students are given science instruction in their primary language
- No, students are not grouped differently because of language

**23. Do you have access to your state “English Language Proficiency Assessment” scores or ELD levels of your ELL students?**

- Yes
- No

**24. If yes, in what ways do you choose to rely on your state “English Language Proficiency Assessment (EL-PA)” scores/ELD levels for your science instruction? (Please check all that apply)**

- To group student by oral language abilities
- To group students by literacy abilities
- To group students by overall English proficiency level
- To form ELL and Non-ELL groups
- I do not rely on the ELPA for science instruction
- Other (please explain) \_\_\_\_\_

## Teacher Survey on EL Content Instruction and Assessment (EVEA project)

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**25. To what extent do you choose to rely on the following English-as-a-second-language (ESL) instructional strategies in your science class? (Please choose from 0-5 for each reply)**

	Never					Always	
	0	1	2	3	4	5	
Use deliberate pauses (wait time) to allow students to respond							
Use scaffolding techniques to support students' understanding of English (e.g., progression from closed to open-ended questions, think-aloud/modeling, graphics, realia)							
Provide opportunities for student-to-teacher interactions that encourage elaborated responses							
Provide opportunities for student-to-student interactions that encourage elaborated responses							
Provide opportunities for students to clarify English vocabulary in their primary language							
Provide opportunities for self- or peer-assessment of English proficiency							
Explicitly teach language structures and vocabulary							
Use supplementary ELL materials (e.g., glossaries, bilingual dictionaries)							
Adapt my speech to all levels of English proficiency							
Adapt texts to all levels of English proficiency							
Provide feedback about students' weaknesses in English language (e.g., vocabulary, grammar)							
Explicitly incorporate students' home culture and background experiences							

# Teacher Survey on EL Content Instruction and Assessment (EVEA project)

## Assessment Practices

- 26. Approximately how frequently do you use the following to assess student achievement in science?**  
(Please choose from 0-5 for each reply and check corresponding boxes if you make any kinds of adaptation for ELs)  
(0 = Never; 1 = Less than once a month; 2 = 1-2 times a month; 3 = Once per week; 4 = Several times a week; 5 = Every day)

	0	1	2	3	4	5	EL*
Quiz/short tests							
Chapter/end-unit tests							
District tests or benchmarks							
Student responses to teacher questions during instruction							
Student work (e.g., homework, journals, logs, portfolios, representations)							
Student questions							
Observation of students							
Student discussions							
Peer-assessment							
Self-assessment							
Released standardized tests or items							
Other (please specify below)							

\*EL = Make EL Adaptations

IMPORTANT: If you checked any boxes for ELL ADAPTATIONS, please briefly explain below:

## Teacher Survey on EL Content Instruction and Assessment (EVEA project)

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**27. How important are the following for evaluating students in your science class? (Please choose from 0-5 for each reply and check corresponding boxes if you make any kinds of adaptation for ELs)**

	Not important					Very important		
	0	1	2	3	4	5	EL*	
Knowing scientific facts or vocabulary								
Understanding of scientific concepts								
Achievement/progress relative to the rest of the class								
Achievement/progress relative to State Standards								
Achievement/progress relative to the child's previous learning (or performance)								
Producing science language								
Effort, participation, behavior								
Other (please specify below)								

\*EL = Make EL Adaptations

IMPORTANT: If you checked any boxes for EL ADAPTATIONS, please briefly explain below:

## Teacher Survey on EL Content Instruction and Assessment (EVEA project)

### **28. In what ways do you use assessment information? (Please check all that apply)**

- Instructional planning for class
- Instructional planning for individual students
- Monitor progress
- Progress reports for parents
- Progress reports for administrator
- Diagnostic reports for Student Study Teams/referrals
- Grade-level planning with colleagues
- Other (please explain) \_\_\_\_\_

### **29. As a final step, we would like to ask if you have any further comments and suggestions for the important topics of ELL instruction, assessment and/or science learning: THANK YOU FOR YOUR TIME AND VALUABLE INPUT!**