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# Assessing the Preparation of Tomorrow's Educators

Evaluation Systems group of Pearson

Dublin, OH  
October 16, 2014

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# Ohio Assessments for Educators (OAE)

- The OAE program consists of 42 licensure assessments.
  - Pedagogy assessments for four licensing levels
  - Content knowledge assessments for teaching, administrative, and professional pupil service licenses
- Operational testing
  - 28 assessments offered in September 2013
  - 11 assessments added in January 2014
  - 2 assessments added in September 2014
  - 1 assessment (Dance) in process



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# Pedagogical Knowledge Assessments

**Began September 2013**

- APK: Early Childhood (PK-3)
- APK: Middle Childhood (4-9)
- APK: Adolescence to Young Adult (7-12)
- APK: Multi-Age (PK-12)

# Content Knowledge Assessments

## Began September 2013

- Art
- Biology
- Business Education
- Computer/Technology (Subtest I & II)
- Early Childhood Education
- Early Childhood Special Education
- Educational Leadership
- Elementary Education (Subtest I & II)
- English Language Arts
- Family and Consumer Sciences
- Integrated Social Studies
- Mathematics
- Middle Grades English Language Arts
- Middle Grades Science
- Middle Grades Mathematics
- Middle Grades Social Studies
- Music
- Physical Education
- Reading (Subtest I & II)
- School Psychologist
- Special Education
- Special Education Specialist: Deaf/Hard of Hearing
- Special Education Specialist: Visually Impaired
- Technology Education (Subtest I & II)

# Content Knowledge Assessments

## Began in January 2014

- Chemistry
- Computer Information Science
- Earth and Space Science
- English to Speakers of Other Languages
- Integrated Science
- Marketing
- Physics
- Prekindergarten (Subtest I & II)
- School Counselor
- School Library Media Specialist
- Theater

## Began in September 2014

- Agriscience
- Health

## In process

- Dance

# Alignment of OAE with Ohio Standards

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# Assessment Framework

## Field 024: Integrated Science

<b>Content Domain</b>	<b>Range of Competencies</b>	<b>Approximate Percentage of Assessment Score</b>
I. Nature of Science	0001–0003	19%
II. Physical Science	0004–0009	37%
III. Life Science	0010–0013	25%
IV. Earth and Space Science	0014–0016	19%

# Competency and Descriptive Statements

## 0001 Understand principles and procedures of scientific inquiry.

Includes:

1. Demonstrate knowledge of the principles and procedures for designing and carrying out scientific investigations.
2. Recognize methods and criteria for collecting, organizing, analyzing, and presenting scientific data.
3. Recognize the evidential basis of scientific claims.
4. Demonstrate knowledge of safety procedures and hazards associated with scientific investigations.
5. Demonstrate knowledge of the materials, equipment, and technology used in the sciences.
6. Apply basic mathematical procedures in analyzing and representing data and solving problems in the sciences.



# Sample Alignment Table

## Alignment of OAE Integrated Science Assessment Framework with Ohio-specified Standards

This alignment study identifies the national and/or Ohio educational standards that are addressed in whole or in part by each competency of the assessment framework. An indication of alignment does not necessarily imply complete congruence of the content of an OAE test competency with the relevant standard. The information in this document is subject to change if revisions are made to the assessment framework. Any changes will fully supersede the information contained in this document.

Competencies		Ohio Educational Preparation Standards	Ohio Educator Standards	Ohio Student Standards	
<b>Integrated Science (7-12)</b>		NSTA 2012 Standards for Science Teacher Preparation: Secondary Science Content Analysis Form	Ohio Standards for the Teaching Profession	Ohio Revised Science Standards and Model Curriculum: High School	CCSS - Reading Standards for Literacy in Science and Technical Subjects
<u>Nature of Science</u>					
0001	Understand principles and procedures of scientific inquiry.	Unifying Concepts: A.1-3; Chem: A.12; B.26 Phys: A.10; B.21 Bio: A.11; B.20	2	Science Inquiry and Application	Gr. 6-12: 2-4; 7-8
0002	Understand the history and nature of science.	Unifying Concepts: A.1-A.2; A.4 Chem: B.25 Phys: B.20 Bio: B.19 Earth/Space Sci: B.20	2	Science Inquiry and Application	

# Assessment Validation

# Assessment Validation Process for Ohio

- Preliminary Framework Review
- Content Validation Survey
- Bias Review Committee Item Validation
- Content Review Committee Item Validation
- Standard Setting (i.e., Passing Score Setting)
- Administration of Assessments

# Goals of the Assessment Validation Process

- Consistent with educational standards and practices
- Reflective of knowledge and skills important for initially-licensed educators to have in order to perform their jobs
- Accurate and valid
- Free from bias

# Preliminary Framework Review

- Align with expectations for Ohio educators
- Address important areas of Ohio educator knowledge & skills
- Clear and appropriate
- Free from bias

# Content Validation

- Three rating questions:
  - How important is the competency?
  - How important is the set of descriptive statements?
  - How well does the set of competencies cover knowledge and skills required for teaching?

# Item Validation Criteria

## Bias Review

- Content
- Language
- Offensiveness
- Stereotypes
- Fairness
- Diversity

## Content Review

- Competency Match
- Accuracy
- Freedom from Bias
- Job-Relatedness

# Passing Score Setting

- Content review committee participation
  1. Take the test
  2. Provide expected performance judgments for *each* test question
  3. Feedback on judgments and item statistics
  4. Change expected performance judgments, if desired



# Passing Score Setting

- Content review committee participation
  1. Take the test
  2. Provide expected performance judgments for *each* test question
  3. Feedback on judgments and item statistics
  4. Change expected performance judgments, if desired
- State-level participation
  1. Educator Standards Board's Licensure Committee
  2. Full Educator Standards Board
  3. State Board's Capacity Committee
  4. Full State Board of Education

# Using OAE Results to Inform Curricular Improvement

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## *ResultsAnalyzer™*

- Customize reports based on current data
- View, download, and print reports
- Access multiple years of test and registration data
- Inform program evaluation
- Target support for teacher candidates
- Facilitate reporting for state and national accreditation
- Support institutional research

# Assessment-Level Reports

Compare institution's mean assessment performance to statewide performance

Consider which assessments indicate areas of relative strength & weakness

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Assessment/Ethnicity Summary - Best Attempt - Brady Coll									
Assessment	# Takers	# Pass	# Not Pass	% Pass	% Not Pass	Mean Total Scaled Score-Inst.	Mean Total Scaled Score-State		
Early Child Educ Test I (11/06-Present)	33	28	5	85%	15%	240.2	233.9		
Early Child Educ Test II (11/06-Present)	33	31	2	94%	6%	252.4	239.3		
English Test I (11/06-Present)	27	26	1	96%	4%	243.4	236.0		
English Test II (11/06-Present)	31	30	1	97%	3%	247.5	233.6		
History Test I (11/06-Present)	33	29	4	88%	12%	241.4	236.4		
History Test II (11/06-Present)	33	28	5	85%	15%	233.8	235.9		
Mathematics Test I (11/06-Present)	25	20	5	80%	20%	244.2	231.6		
Mathematics Test II (11/06-Present)	24	19	5	79%	21%	242.8	230.4		
Middle Grades Mathematics (11/06-Present)	71	62	9	87%	13%	245.6	227.7		
Science Test I (11/06-Present)	12	10	2	83%	17%	244.3	229.8		
Science Test II (11/06-Present)	12	10	2	83%	17%	236.3	230.8		

Best Attempt	Best Attempt by Program Year	First Attempt
Assessment/Question...	Assessment/Year/Ethnicity...	Assessment/Ethnicity...
Assessment/Question...	Assessment/Year/Question...	Assessment/Question...

# Domain-Level Reports

Compare institution's mean domain performance to statewide performance

Consider which domains indicate areas of relative strength & weakness

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Domain Scores - Best Attempt - Brady Coll

Assessment	Domain:	# Takers - Inst.	Mean Domain Perf. Index-Inst.	# Takers - State	Mean Domain Perf. Index-State
Mathematics Test I (11/06-Present)	01	28	3.1	2,170	3.0
	02	28	3.3	2,170	2.9
	03	28	2.9	2,170	2.6
	04	28	3.4	2,170	3.1
	05	28	2.3	2,170	2.1

Best Attempt | Best Attempt by Program Year | First Attempt

Domain Scores - Best Annual... | Domain Scores - First...

Domain Key

Assessment	Domain #	Domain Type	Domain Name
Mathematics Test I (11/06-Present)	01	M/C	Number Concepts and Operations
	02	M/C	Algebra
	03	M/C	Precalculus and Calculus
	04	C/R	Algebra (C/R)
	05	C/R	Precalculus and Calculus (C/R)

# Pass Rate Analysis

Monitor pass rates by program year

Provides ability to consider impact of changes in curriculum

Available in chart or table layout

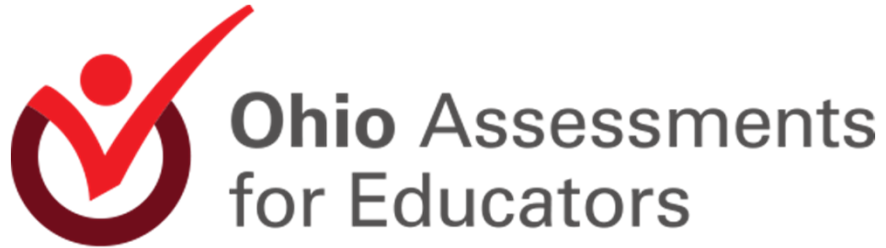


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# Questions?







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