Understanding Indiana’s New Assessment

Webinar
Agenda

- What is ILEARN?
- Guiding Principles
- Sneak Peek at the New Assessment System
- Key Features
  - Improved Accessibility
  - Computer-Adaptive Testing
  - Automated Scoring
  - Hand-Scoring Open-Ended Questions
  - New Test Blueprints
  - New Item Specifications
What is ILEARN? – Overview

- Built with input from Indiana educators at each stage of the process
- Accessible assessments tailored to students’ and educators’ needs
- Designed to measure Indiana Academic standards
- Includes both computer-adaptive and fixed-form assessments
### Understanding the New Assessment

<table>
<thead>
<tr>
<th>What is staying the same?</th>
<th>What is changing?</th>
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<tbody>
<tr>
<td>• Assessing ELA and mathematics in grades 3–8</td>
<td>• New blueprints</td>
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<tr>
<td>• Fixed-form tests for science (Year 1), social studies, and high school biology</td>
<td>• Computer-adaptive tests for mathematics and ELA</td>
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<td>• Additional supports and accommodations</td>
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<td>• New items and item types</td>
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<td>• Reports showing how all students in the school or district performed on each assessment.</td>
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<td>• New online test interface</td>
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<td>• Operational tests are untimed</td>
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<td></td>
<td>• New Released Items Repository</td>
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<td></td>
<td>• New, optional test for U.S. Government</td>
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<td></td>
<td>• Untimed Assessments</td>
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<td></td>
<td>• Reduced testing times compared to previous years</td>
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Guiding Principles of ILEARN
Five Guiding Principles

1. Transparent
2. Student-centered and accessible
3. Technically sound
4. Indiana-aligned
5. Evidence-based
# Transparent: Indiana’s Landscape — How did we arrive here?

<table>
<thead>
<tr>
<th>It started with a dream…and feedback from lessons learned (IC 20–32–5 and the ISTEP+ Panel)</th>
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<td>Indiana formalized recommendations for a new Indiana assessment system that would be different from and better than the ISTEP+ system.</td>
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<th>Then came legislation… (2017 HEA 1003)</th>
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<td>HEA 1003 defined a new assessment system for federal accountability that specifically addressed the use of technology and integration of assessment literacy.</td>
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<tr>
<th>Then came a Request for Proposals…</th>
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<tr>
<td>A panel of educators, CTCs, technology staff, and IDOE and State Board members identified American Institutes for Research (AIR) as the vendor for the new assessment.</td>
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Transparent: Educator Involvement in the Assessment-Building Process

We are building ILEARN from the ground up, and educators are involved in every step of the process!

**Indiana Academic Standards**

Educators define the knowledge and skills students should achieve at each grade level for each content area.

**Blueprints**

Educators define essential content from the standards and appropriate proportions of the standards for the assessment.

**Item Specifications**

Educators determine how each standard should be measured (e.g., evidence statements, item types, cognitive complexity, etc.)

**Item Development**

Educators develop new items to ensure that the assessment tests the breadth and depth of Indiana Standards.

**Item Acceptance Review**

Educators review items from licensed banks to determine alignment with Indiana Standards.

**Data Review**

Educators review statistical data from field-test items to determine if the items can be used operationally.

**Scoring**

Educators score open-ended items for field test (calibrate the scoring through range-finding) and operational data.

**Standard Setting**

Educators determine cut scores for each proficiency category.

Indiana Department of Education
Student-Centered and Accessible

- Technology platform is accessible to virtually all students, featuring
  - the widest range of accessibility tools and accommodations available in the industry,
  - item specifications that include accessibility requirements
  - rich item types (e.g., drawing a graph, conducting a simulation, or identifying grammatical errors in a sentence and typing in replacement text), and
  - a Released Items Repository that allows students to become familiar with assessment systems starting in May 2018.
ILEARN Accessibility Framework

Universal Features: Available to ALL students

- Answer Eliminator
- Calculator for calculator allowed items (Mathematics Grades 6-8)
- Dictionary (Writing) New
- English Glossary for pre-selected construct-irrelevant terms (all content areas) New
- Notepad New
- Highlighter
- Line Reader
- Mark for Review
- Mathematics Tools (e.g. ruler)
- Thesaurus (Writing) New
- Tutorial New
- Writing Tools (e.g. rich text, spell check)
- Zoom

Embedded/Online

- Color Contrast
- *Translation Glossary (for pre-selected construct-irrelevant term in Spanish, Burmese, Arabic, Mandarin, Cantonese, Vietnamese) all content areas New
- Masking
- Mouse pointer (size and color) New
- Print size (zoom in and out) New
- *Translation-Spanish (Stacked) for Mathematics, Science and Social Studies New

Designated Features: Available to ANY student with a need determined by educators

Accommodations: Available to students with an IEP, 504 Plan or Nonpublic Service Plan

- Color Contrast
- *Translation Glossary (for pre-selected construct-irrelevant term in Spanish, Burmese, Arabic, Mandarin, Cantonese, Vietnamese) all content areas New
- Masking
- Mouse pointer (size and color) New
- Print size (zoom in and out) New
- *Translation-Spanish (Stacked) for Mathematics, Science and Social Studies New
- America Sign Language (ASL) videos for media items New
- Braille transcript for audio items New
- Closed caption for online audio items New
- Refreshable Braille New
- Permissive mode to use assistive technology devices New
- Print on Demand New
- Streamline format New
- Text to speech (except for items testing comprehension)

Embedded/Online

- Alternative indication of response
- Braille Booklet
- Computer or other Assistive Technology (AT)
- Extra time
- Adaptive calculator for calculator allowed items (Mathematics Grades 6-8) New
- Hundreds Chart (Mathematics Grades 3-8) New
- Interpreter for sign language
- Large Print Booklet
- Multiplication Table (Grades 6-8) New
- Paper Booklet
- Paper Booklet (Spanish Translation) New
- Read aloud to self
- Read aloud script for paper booklet
- Scribe
- Test individually

Non-Embedded

- Assistive technology to magnify/enlarge
- Color Overlay
- Sound amplification system
- Special furniture or equipment for viewing test
- Special lighting conditions
- Time of day for testing altered

*Intended for English Learners (EL)

Accommodations: Available to students with an ILP (English Learners)

- Extra time
- Read aloud to self
- Test individually
- Approved bilingual word-to-word dictionary

Embedded/Online

- Text to speech (except for items testing comprehension)

Non-Embedded

- English Dictionary (Writing) New
- Headphones or noise buffers to block out distractions
- Low-tech assistive writing instrument
- Preferential seating
- Scratch/blank paper, including lined or graph paper
- Small group
- Thesaurus (Writing) New

Non-Embedded

- English Dictionary (Writing) New
- Headphones or noise buffers to block out distractions
- Low-tech assistive writing instrument
- Preferential seating
- Scratch/blank paper, including lined or graph paper
- Small group
- Thesaurus (Writing) New

*Intended for English Learners (EL)
Technically Sound

• ILEARN is both valid and reliable.

• Validity: Does the assessment measure what it is supposed to measure?

• Reliability: Does the assessment produce stable and consistent results?
Indiana-Aligned

- The items on the new ILEARN tests assess **cognitively complex content** and are **aligned to Indiana’s Academic Standards**.
Evidence-Based

• Indiana’s assessment system will yield actionable data to help teachers in the classroom.
A Sneak Peak of the New Assessment
A Fully-Integrated Online Testing Platform

- The new online testing platform can handle high volumes of students taking tests without throttling bandwidth.
- The system is cloud-based and has a long track record of protecting student data.
  - Data does not get lost in the event of a power outage or if a student unplugs a machine.
- Works on both older desktops and the newest devices
- The secure browser effectively locks out third-party applications.
Network Diagnostic Tool

AIR’s network diagnostic tool is available to help schools simulate network throughput requirements.

- AIR’s network diagnostic tool allows schools to test the capacity of their local networks and adjust as necessary.
- The tool simulates network throughput based on common item sizes.
- AIR’s network diagnostic tool is available at: https://demo.tds.airast.org/systemdiagnostic/pages/default.aspx
**Practice Test Session Not Started**

<table>
<thead>
<tr>
<th>Student Name</th>
<th>SSID</th>
<th>Opp #</th>
<th>Test</th>
<th>Test Status</th>
<th>Test Settings</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>GUEST</td>
<td>GUEST</td>
<td>1</td>
<td>G7 ELA Practice Test</td>
<td>Started 0/21</td>
<td>Custom</td>
<td></td>
</tr>
</tbody>
</table>

**Instructions**

1. **Start Session**
   - Press the **Select Tests** button, mark the checkboxes for the tests you wish to include, and then press the **Start Session** button.

2. **Approve Students**
   - Press the **Approvals** button, review the student's test details, and then press the **✓** button.

3. **Monitor Progress**
   - Monitor the **Students in your Test Session** table. You can use the **button to view print requests and the ** button to pause students' tests.
New Test Items

- **Hot Text** Items that give students the ability to select, drag and rearrange groups of words;

- **Table Match** Items that allow students to match statements, phrases, or mathematical representations to one or more categories, giving them the freedom to consider multiple categories and classifications.

- **Interactive Grid** Items that allow students to drag and drop objects to different sections of the answer space, highlight or select different sections of a given graphic or plot points and create lines and shapes.
More Precise Results

### Performance on the ILEARN ELA Grade 5 Test, by Student, Reporting Category:
#### Demo School 9999001, 2018-2019

<table>
<thead>
<tr>
<th>Name</th>
<th>SSID</th>
<th>Scale Score</th>
<th>Key Ideas and Textual Support Achievement Category</th>
<th>Structural Elements and Organization Achievement Category</th>
<th>Writing Achievement Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demo, Student A</td>
<td>999999001</td>
<td>2486</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
<tr>
<td>Demo, Student B</td>
<td>999999002</td>
<td>2422</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
<tr>
<td>Demo, Student C</td>
<td>999999003</td>
<td>2389</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
<tr>
<td>Demo, Student D</td>
<td>999999004</td>
<td>2503</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
<tr>
<td>Demo, Student E</td>
<td>999999005</td>
<td>2459</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
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</table>

**Legend:** Reporting Category Achievement Category
- **Yellow Circle:** Below Mastery
- **Green Square:** Al/Near Mastery
- **Blue Triangle:** Above Mastery
Key Features of the New Assessment
AIR’s test delivery system offers a robust collection of accessibility features and embedded supports.

The goal is to make the assessment accessible to ALL students.

<table>
<thead>
<tr>
<th>Desmos Calculator</th>
<th>American Sign Language</th>
<th>Text-to-Speech</th>
<th>Speech-to-Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnification</td>
<td>Reverse Contrast</td>
<td>Intuitive graphing interfaces</td>
<td>Assistive Devices Integration</td>
</tr>
<tr>
<td>Embedded Dictionary*</td>
<td>Line Reader</td>
<td>Masking</td>
<td>Spanish Translations</td>
</tr>
<tr>
<td>Embedded Thesaurus*</td>
<td>Glossaries</td>
<td>Spell Check*</td>
<td>Rich Text Tools*</td>
</tr>
</tbody>
</table>

* Item-specific tool
New Accessibility Supports

- Desmos Calculator
- Rich Text Tools*
- Spell Check*
- Dictionaries*
- Thesaurus*
- Spanish Glossaries
- American Sign Language

* Item-specific tool
New Accessibility Supports

- Desmos Calculator
- Rich Text Tools*
- Spell Check*
- Dictionaries*
- Thesaurus*
- Spanish Glossaries
- American Sign Language

* Item-specific tool
What Is a Computer-Adaptive Test (CAT)?

- ELA and mathematics assessments for grades 3–8 will be computer-adaptive.
- Items selected based on student response to the previous item.
- CATs provide a better measure of what each student knows and can do.
- Difficulty is not the same as cognitive complexity or depth of knowledge.
How Is a Computer-adaptive Test Aligned to the Standards?

- Every student sees a representative sample of the full range of content.
- Every student has the chance to demonstrate the same range of cognitive skills.
- Item difficulty, not cognitive complexity, adjusts to student performance.
Auto-Scoring

• Real-time scoring is available for IREAD-3 taken online.

• Once standard-setting has taken place, ILEARN scores will be reported 12 days after test submission to allow time for some items to be hand-scored.

• Items requiring multiple interactions will be auto-scored.

• Rubrics have multiple correct answers.
Hand-Scoring of Open-Ended Questions

• Educators will score open-ended items for field-test calibration and range-finding.
• Indiana teachers will also be invited to hand-score open-ended items on the operational assessments.
New Resources for Educators
What is a test blueprint?

Test blueprints lay out the architecture of the test:

• the reporting categories,
• how many items/points each reporting category will contain,
• what types of items will be placed on the test and their relative proportions within each category,
• the total number of items and score points,
• the assessment’s priorities,
• how standards should be prioritized, and
• the frequency with which each standard is assessed.

A video about the ILEARN blueprint can be accessed at: https://youtu.be/JEQ78hTIt2Q
Test blueprints, cont.

The specific objectives of the new ILEARN test blueprints ensure that the assessment:

- measures the range of academic content standards;
- measures the intended process standards across academic standards;
- measures achievement across the range of cognitive complexity;
- produces precise and reliable test scores and performance level classifications, both overall and for subdomains;
- meets mandated test-administration time limits; and
- remains consistent related to measurable content across test administrations.
What Information does the new ILEARN test blueprint include?

- Reporting categories
- Indiana’s Academic Standards
- Rank for each standard
- Standard item ranges
- Standard % of test
- Reporting category item ranges
How teachers can use the new test blueprints

• Blueprints provide information on how to prioritize instruction across standards.

• Teachers can use the blueprint to prioritize instructional content. Consider which areas are prioritized in the blueprint when determining approximately how much time to spend on each major concept in the next unit.
How can teachers use item specifications documents?

• Guide class assignments and discussions.
• Think about how students will provide evidence of mastery. What tasks will show that students have mastered the standard?
• Vary the cognitive complexity of different questions and tasks, and consider any content restraints based on the unit of study.
Item Specifications and Depth of Knowledge

- Standard
- Content Limits
- Item Type(s)
- Evidence Statements
- Depth of Knowledge
- Sample Item(s)

<table>
<thead>
<tr>
<th>Content Standard</th>
<th>4.RI.2.2 Identify relationships among words, including more complex homographs, homonyms, synonyms, antonyms, and multiple meanings.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content Limits</td>
<td>Items should NOT ask students to define the type of word that is being used but rather demonstrate its meaning between the words. Items may refer only to synonym and antonym in the stimuli.</td>
</tr>
<tr>
<td></td>
<td>All words should be provided with sufficient context for support.</td>
</tr>
<tr>
<td>Construct-Relevant Vocabulary</td>
<td>similar/same as, replace, phrase, opposite, relationship, synonyms, antonyms, meaning</td>
</tr>
<tr>
<td>Recommended Response Mechanisms (Interactions)</td>
<td>Multiple Choice</td>
</tr>
<tr>
<td></td>
<td>Multi-Select</td>
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<tr>
<td></td>
<td>Hot Text</td>
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<tr>
<td></td>
<td>Drag and Drop</td>
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<tr>
<td></td>
<td>Evidence-Based Selected Response</td>
</tr>
<tr>
<td>DOK</td>
<td>2</td>
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</table>

Evidence Statements:

- Students replace a given word with synonyms, antonyms, homographs, homonyms, and multiple meaning words.
- Students use context to determine or support meaning.
- Students identify a word, sentence, or phrase that uses a given word in the same way.

Note: Level of difficulty will depend on subtlety/amount of text and/or complexity of interpretation required.

Sample Item:

Why is “X” a better word to use in this sentence from paragraph 4 than “Y”? [MC]

A. Because X suggests [something more precise]
B. Because X suggests [something more formal]
C. Because X suggests [something more audience appropriate]
D. Because X suggests [something more aligned to the tone]
Upcoming Trainings

• Spring 2018:
  • What Is a Standards-Based Computer-Adaptive Test webinar?
  • Why Is It Important to Assess webinar?
  • What’s New with ILEARN?
  • Student Interface training module
  • Content-Specific Trainings

• Fall 2018:
  • Online Testing System webinars
  • Assessment Literacy webinars
  • Online Test Administrator Certification Course
Upcoming Trainings: Spring 2018

• Spring 2018:
  • Why Is It Important to Assess? Webinar
    • May 22, 4:00pm ET
    • June 8, 11:00pm ET
    • June 14, 1:00pm ET
  • What Is a Standards-Based, Computer-Adaptive Test? Webinar
    • May 24, 4:00pm ET
    • June 12, 11:00am ET
    • June 18, 1:00pm ET
  • Student Interface Training Module
    • Available on the Indiana Portal
Upcoming Trainings: Fall 2018

• Fall 2018:
  • Online Testing System Webinars
  • Assessment Literacy Webinars
  • Online Test Administrator Certification Course

• All training resources will be available on the Indiana Portal
More Information:

Indiana Portal: http://indiana.portal.airast.org

Indiana Assessment Help Desk
• Toll-Free Phone: 1.866.298.4256
• Email: airindianahelpdesk@air.org

Indiana Department of Education:
• INassessments@doe.in.gov
• 317-232-9050
• Follow us #IDOEILEARN
Thank you! Questions?