

# Distributed Item Review

P. Shawn Irvin

Dan Farley

Gerald Tindal

Behavioral Research and Teaching

University of Oregon

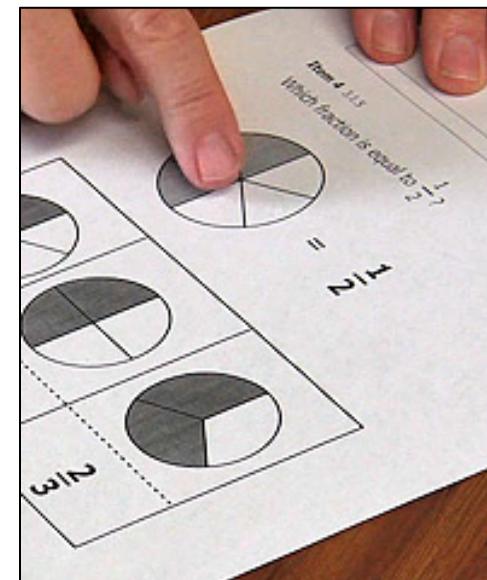
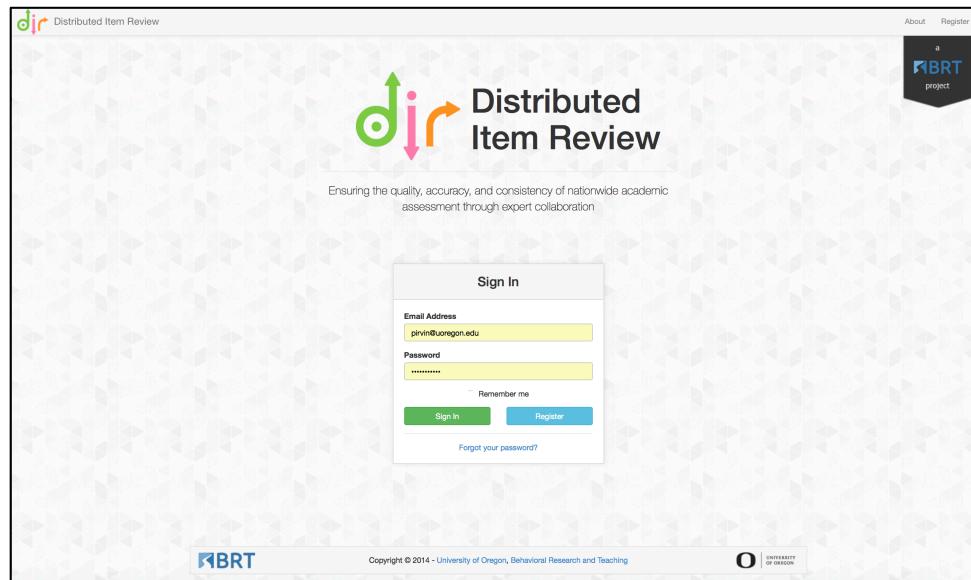
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# Distributed Item Review (DIR)

1. Description and Purpose
2. Intended Audiences
3. Reviewer View
4. Essential Features
  - a. Reviews
  - b. Assignments
  - c. Items
  - d. Standards
  - e. Questions
  - f. Resources
  - g. Reports
4. Sample Test
5. User Guide

# DIR Description and Purpose

A secure web-based system for presenting *test items* to *expert reviewers* across *broad geographic regions* so they can be *evaluated* for important dimensions of *bias, sensitivity, and alignment with standards*.



# DIR Intended Audiences

- *Content and Field Experts*
- *Education Researchers*
- *Education Leaders and Practitioners*
- *Test and Curriculum Developers*

Recruited/sampled from targeted  
expert reviewer pools  
(i.e., local, state, regional, national)

# Reviewer View

## Items

Filter Items

- S05PHS1.1LSAMPLE
- S05PHS1.1L01
- S05PHS1.1L02
- S05PHS1.1L03
- S05PHS1.1M04
- S05PHS1.1M05
- S05PHS1.1M06
- S05PHS1.1H07
- S05PHS1.1H08
- S05PHS1.1L09
- S05PHS1.1L10
- S05PHS1.1M11
- S05PHS1.1M12
- S05PHS1.1M13
- S05PHS1.1H14

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## Grade 5 Science Item Review

Subject: Science  
Grade: Grades 5, 8, and 11  
Opening Date: 02/27/2016  
Closing Date: 04/29/2016  
Number of Items: 495

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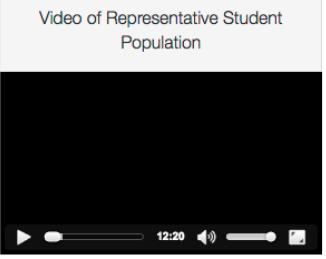
## Resources

- ORExt Item Development and Specifications 2014-2015
- Oregon Accessibility Manual: 2014-2015 School Year
- The First Contact Census Student Characteristics: Supplemental Handout
- DIR Webinar Training Slides
- ORExt Essentialization Flowchart

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## Videos

Video of Representative Student Population



DIR Training Webinar Recording



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## Instructions

Welcome to the Oregon Extended Assessment Reading and Writing, Math, and Science Field Test Item Review. There are many test items for each grade level for you to review, and three questions to answer for each item. The three questions are: Alignment of Item to Essentialized Standard (0, 1, 2), Accessible to SPED Students (yes, no), and Item is free of Bias/Sensitivity Issues (yes, no). Please refer to the Training Slides in the Resources section to learn about each of these questions you will be rating. Please write all comments and suggestions in the Comments window below each set of questions. Your comments are critical to help us make an item aligned to an essentialized standard when you rate an item alignment as a 0. Also, if you have any suggestions for making the item more accessible to students with significant cognitive disabilities, please include those in the comments box, as well as suggestions if an item is not free of bias (no). Each item is on one page and before proceeding to the next page please be sure to click on the Save & Continue button at the bottom of each page. A green check mark will appear next to the item number on the left side of the page after you answer all three questions and click the Save & Continue button. Thank you for reviewing these items! If you have any questions please contact Steve Jonas at sjonas@uoregon.edu (ELA), or Shawn Irvin at pivin@uoregon.edu (Science), or Dan Farley at dfarley@uoregon.edu (Math). Alternatively, you may call the HelpDesk at 1-800-833-3163.

**Next »**

## Example Review Study from Reviewer Login: Alignment of Grade 5 Science Items to Essentialized Standards

### Note:

- **Study Information** (top)
- **Navigable Item List** (left)
- **Support Resources** (center)
- **Reviewer Instructions** (bottom)

Reviewer clicks **Next** to begin review.

( 5 )

# Reviewer

## View cont.

### Example Review Study from Reviewer Login: Non-secure Oregon Extended Assessment Practice Item

#### Note:

- **Navigable Item List** (top left)
- **Support Resources** (bottom left)
- **Item** (center, screenshot – see slide 14)
- **Questions** (bottom)
- **Standards** (bottom)

**Reviewer clicks *Save and Continue* to save responses and move to next item.**

The screenshot shows the 'Grade 5 Science Item Review - ITEMS\_GR5SCIPRACTICE' page. At the top, there's a 'Items' section with a filter bar containing 'S05PHS1.1LSAMPLE' and a search icon. Below it is a list of items: S05PHS1.1L01 through S05PHS1.1H14. The main area features an 'Item' section for 'Item 4: Which is an animal?' with three options: a horse, a mushroom, and a tree. Below the options are three colored boxes: green, pink, and pink. To the right of the item are 'Questions' and 'Standards' sections. The 'Questions' section contains four numbered items with rating scales. The 'Standards' section lists 'S05LFS2.1' and its description: 'Recognize that living organisms need different things to grow and survive.' It also includes a detailed description of the standard: 'L - Identify which is an animal, plant and decomposer using pictures of common organisms, and including non-living objects as comparators; M - Identify that animals eat food (plants, other animals) and drink water to survive, and that plants need materials in soil, air and water to survive (i.e., compared to common objects/features they don't need) - emphasis is on the matter these organisms need; H - Expand to include where in the environment such matter needed for survival might come from.' At the bottom are navigation buttons: '« Home' and 'Save and Continue'.

# Essential Features: Reviews

**Reviews** are administrator-defined based on a research study's design and goals. Reviews frame:

- Subject (ELA, Math, or Science)
- Title
- Date (general descriptive)
- Start/End Dates
- Grade(s)
- Resources
- Review Instructions
- Email Notice Message
- Questions
- Review Questions

# Essential Features: Reviews cont.

Distributed Item Review

Reviews

5 Records

Subject	Title	Start Date	End Date	Edit	Delete
English	ORExt English Language Arts Items	02/27/2016	03/05/2016	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
Science	ORExt Science Items	02/27/2016	03/05/2016	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
Math	ORExt Math Items	02/27/2016	03/26/2016	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
Math	PASA Sample Item Review	04/21/2015	05/29/2015	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
English	Demonstration Review	01/01/2015	12/31/2020	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

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Reviews / Edit

Subject	English Language Arts
Title	ORExt English Language Arts Items
Date	Fall 2014
Start Date	02/27/2016
End Date	03/05/2016
Grade	All Grades

Resources

- ORExt Essentialization Flowchart
- DIR Training Webinar Recording
- PASA Essentialization Process

Review Instructions

There are many test items for each grade level for you to review, and three questions to answer for each item. The three questions are: Alignment of Item to Essentialized Standard (0, 1, 2), Accessible to SPED Students (yes, no), and Item is free of Bias/Sensitivity Issues (yes, no). Please refer to the Training Slides in the Resources section to learn about each of these questions you will be rating.

Please write all comments and suggestions in the Comments window below each set of questions. Your comments are critical to help us make an item aligned to an essentialized standard when you rate an item alignment as a 0. Also, if you have any suggestions for making the item more accessible to ...

Email Notice Message

Thanks for registering for the review!

Comments

Questions

Review Questions (in order)

- Rate the strength of alignment between the test item and standard/s.
  - 0 - Insufficient alignment
  - 1 - Sufficient alignment
  - 2 - Strong alignment

**Example Review:**  
**Alignment Study**  
**of ELA Items**  
**from the Oregon**  
**Extended**  
**Assessment**

# Essential Features: Assignments

***Assignments*** are housed inside reviews, and allow the administrator to:

- Bulk select and order items (and associated standards/images) by content area, grade, and other dimensions
- Select and designate reviewers
- Provide assignment-specific directions to reviewers



# Essential Features: Items

***Diverse test item types*** can be:

- Bulk uploaded into the DIR using .csv files
- Instantly associated (paired) with desired entities (e.g., standards, image files)
- Associated with specific reviews/assignments

# Essential Features: Items cont.

## Items / Bulk Upload

To upload items in bulk, the *Items File* must be in .csv format and contain the following columns in order (optional fields may be left blank):

- **Item ID** - Unique item identifier
- **Group** - (optional) Item group / task
- **Standards** - A colon-delimited set of standards
- **Item Information** - (optional) Scoring protocol and information
- **Prompt** - (optional) Item prompt text
- **Option A** - (optional) Response option A text
- **Option B** - (optional) Response option B text
- **Option C** - (optional) Response option C text
- **Correct** - (optional) Letter of correct response option (a, b, or c); 'a' is assumed to be correct if missing

To include images for items, the *Images Archive* must be an archive in .zip format containing the images. Item images must have a file name of the corresponding Item ID, while item option images must have a file name of the corresponding Item ID followed by an underscore '\_', followed by the option letter. Accepted file formats are JPEG, PNG, GIF, and SVG.

Example: For an item with ID '123XYZ', the following are valid image file names: 123XYZ.jpg, 123XYZ\_a.png, 123XYZ\_b.svg, and 123XYZ\_c.gif.

.csv column  
headers for bulk  
upload →  
*Item ID and  
Standards Req'd*

### Review

ORExt English Language Arts Items

### Items File (.csv)

Choose File no file selected

Select .csv file containing relevant column headers

### Images Archive (.zip)

Choose File no file selected

Select zipped image folder containing image files to be paired with items → *Linked by Item ID*

Upload



# Essential Features: Items cont.

## ***Key Considerations:***

1. Item IDs **must** be both unique and informative – Ideally linked to both standards and image files

For example, from the Oregon Extended Assessment,

Item ID S05ESS1.1H14 indicates:

Science content area (S), Grade 5 (05), Earth/Space Science Essentialized Standard 1.1 (ESS1.1), Hard complexity (H), and Item #14 written to standard ESS 1.1 (14)

2. Items can be created by populating some/all of .csv

For example, items can be built through the .csv (see slides 12-13), or by populating Item ID/Standard columns and bulk uploading image files (e.g., screenshots) of items with file names matched to Item IDs

# Essential Features: Standards

***Diverse standard types*** can be:

- Bulk uploaded into the DIR using .csv files
- Instantly associated (paired) with test items  
(using the item .csv – see slides 11-14)

**Standards / Bulk Upload**

To upload standards in bulk, the *Standards File* must be in .csv format and contain the following columns in order:

- **Standard ID** - Unique standard identifier
- **Subject** - Must be one of: *english*, *math*, or *science*
- **Domain** - (optional)
- **Description** - (optional)

**.csv column headers for bulk upload**  
→ **Standard ID and Subject Req'd**

**Select .csv file containing relevant column headers**

Standards File (.csv)  
 no file selected

[ 15 ]



# Essential Features: Questions

- Customizable *review questions* allow test items to be reviewed for important dimensions of *bias, sensitivity, and alignment with standards*
- Current response option formats include:
  - Yes/No
  - Numeric (Likert rating scale)
  - Text Box
  - Comment

# Essential Features: Questions cont.

Questions      5 Records

Create Question      Delete

Type	Description	Format	Edit	Delete
Standard	Rate the strength of alignment between the test item and standard/s.	Numeric		
Item	Item is Free of Bias	Boolean		
Item	Item is Accessible to SPED Students	Boolean		
Item				
Item				

Questions / Create

Type: Standard

Text: Rate the strength of alignment between the test item and standard/s.

Format: Numeric

# Description

#	Description	Delete
0	Not Aligned	
1	Somewhat Aligned	
2	Aligned	

**Example Review Question:  
Alignment to standards  
rating, with 3-point Likert  
Scale Response Format**

( 18 )

# Essential Features: Resources

***Diverse Resources*** pertinent to research study can be uploaded, described for reviewers, and associated with reviews (see slides 5-8)

- PDFs (e.g., training slides, academic content standards, state accessibility manual)
- Word documents (e.g., item-building template)
- Videos (e.g., reviewer training webinars, representative testing population)
- Image files (e.g., standard essentialization flow chart)

# Essential Features: Resources cont.

Resources

Create Resource

Title	Created By	Edit	Delete
Video of Representative Student Population	Steve J.		
ORExt Item Development and Specifications 2014	P. Shawn I.		
Oregon Accessibility Manual: 2014-2015 School Year	P. Shawn I.		
The First Contact Census Student Characteristics: Supplemental Handout	P. Shawn I.		
DIR Webinar Training Slides	P. Shawn I.		
ORExt Essentialization Flowchart	P. Shawn I.		
DIR Training Webinar Recording	Steve J.		
PASA Essentialization Process	Dan F.		
PASA Item Writer Training PPT	Dan F.		

Example Video  
Resource:  
Representative  
Student  
Population for  
Oregon Extended  
Assessment

Resources / Edit

Title  
Video of Representative Student Population

Description  
Video of seven different students who represent the student population that participate in Oregon's Extended Assessment. Please note, this video must be viewed using Safari, Internet Explorer or Google Chrome - Firefox will not work.

File (OregonExtended\_StudentPopulationsV2small.m4v)  
Choose File no file selected

Update

( 20 )



# Sample (Practice) Test

ORext - Practice Test - Grade 3 - English Language Arts - Scoring Protocol

Item 1

Option: A      B      C      Correct      Scoring (0/1)

L - Here are three pictures with words.  
(Point to each.) She runs. (Point to sentence.) Which word is runs?

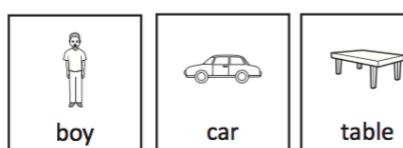


Scoring: 0 = incorrect; 1 = correct

Item 2

Option: A      B      C      Correct      Scoring (0/1)

L - Here are three pictures with words.  
(Point to each.) The car is red. What is red: boy, car, or table?



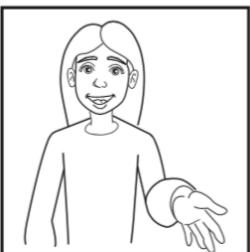
Scoring: 0 = incorrect; 1 = correct

ORext - Practice Test - Grade 3 - English Language Arts - Student Materials

Item 1

She runs.

Which word is runs?



runs

sits

talks

For the Oregon Extended  
Assessment, InDesign  
templates create Scoring  
Protocol for test booklets for  
administrators (top left), and  
Student Materials test  
booklets for students (bottom right)

# DIR User Guide

- DIR Technical Manual and User Guide is in preparation, to be completed Spring 2016, and posted to the BRT website:

<http://www.brtprojects.org/publications/technical-reports>

- Detailed information on DIR system
  - Step-by-step administrator's guide to creating and conducting item/test reviews
- This presentation posted:

<http://www.brtprojects.org/publications/presentations>

# DIR System

<http://brtitemreview.com>

Also found at:

<http://www.brtprojects.org/labs>

# For More Information About the DIR, Contact:

P. Shawn Irvin, PhD

[pirvin@uoregon.edu](mailto:pirvin@uoregon.edu)

Dan Farley

[dfarley@uoregon.edu](mailto:dfarley@uoregon.edu)

( 25 )