
Appendix 6.2.1

Setting Alternate Achievement Standards for Oregon's Extended Assessment: 2014-15

Science, Math, & ELA Standard Settings
June 15 -17, 2015

Oregon Department of Education
Behavioral Research and Teaching - University of Oregon

Welcome

9:00 – 9:45 AM

- Welcome!!
- Tell us about yourself
 - Name
 - District/school
 - Role



Handouts

- Housekeeping
 - Agendas (light pink)
 - Background Information (light green)
 - PowerPoint Notes pages (3-slides per page)
 - Confidentiality Form
- Standard Setting Documents
 - Essentializing standards decision tree
 - Content Standards (Essentialized Standards)
 - Achievement Level Descriptors
 - Bookmarking Documents
 - Rating Sheets (light blue)
 - Standard Setter Evaluation form (light yellow)
 - Ordered-item Booklets (OIBs)

Housekeeping

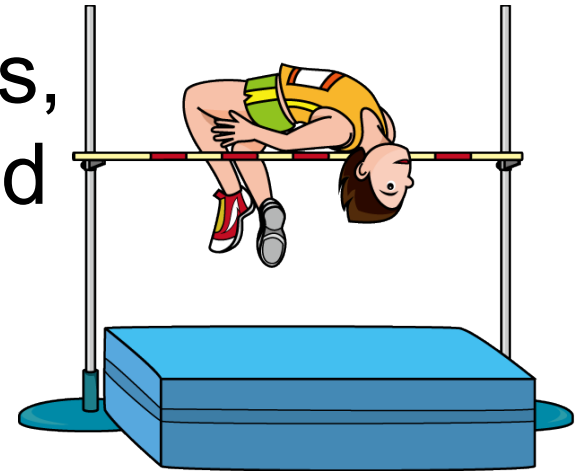
- Make sure that you signed in, please!
- Remuneration from ODE
 - Extended Assessment sub grants (EGMS)
- Confidentiality Form
- Background Info
 - Please record your degree attainment (e.g., B.A., M.A.T)
- Please silence cell phones
- Feel free to leave the room whenever needed, but please do so without disturbance

Orientation to The Task of Setting Standards



Purpose

- To determine the cut scores and achievement level descriptors that aptly define minimally proficient students, as well as those nearing and exceeding proficiency
- In other words, you will be setting the bar to which students will be compared



Outcomes

Quantitative

- Set cut scores that delineate which proficiency category best describes student performance at each level

Qualitative

- Establish achievement level descriptors (ALDs) for Oregon's Extended Assessment (ORExt) based on:
 - state content standards
 - the population assessed
 - the assessment in use (i.e. to determine the minimum expectations for students with significant cognitive disabilities on the state's accountability assessment – how good is good enough?)

Requirements for Your Role

- Minimum

- Knowledge of the population
- Knowledge of the assessment
- Knowledge about accountability

- Ideal

- Advocate for the population
- Advocate for the assessment
- Advocate for accountability

What is Not Needed

- Edits or feedback on the assessment content, scoring, or administration
- Judgments about the relevance of the assessment
- Judgments about the philosophy of accountability or the current statewide assessment system

Table Discussion Rules

- Listen actively and attentively.
- Ask for clarification if you are confused.
- Do not interrupt one another.
- Critique ideas, not people.
- Take responsibility for the quality of the discussion.
- Build on one another's comments; work toward shared understanding.
- Do not monopolize discussion.
- Speak from your own experience, without generalizing.
- If you are offended by anything said during discussion, acknowledge it immediately.
- Consider anything that is said at standard setting is strictly confidential.

Relevant Background Information



How did we get here?

9:45-10:30 AM

- Orientation to the student population
- Orientation to Alternate Assessments based on Alternate Achievement Standards (AA-AAS)
- Essentialization of content standards
- Item/Test Development Process
- Review of the ordered item booklets

Students with Significant Cognitive Disabilities (SWSCDs)

- National Survey Results – Student Attention

Description	%
Generally sustains attention for teacher-directed instruction	36.1
Demonstrates fleeting attention for teacher-directed instruction	52.8
Demonstrates little or no attention for teacher-directed instruction	10.9

Students with Significant Cognitive Disabilities (SWSCDs)

● National Survey Results - Mathematics

Description	ELEM Meets > 80% of the time	MIDDLE Meets > 80% of the time	HIGH Meets > 80% of the time
Sorts objects by common properties (e.g., shape, size, color)	53%	59%	63%
Adds or subtracts by joining or separating groups of objects	36%	44%	48%
Forms groups of objects for multiplication or division	5%	12%	17%
Multiplies and/or divides using numerals	4%	9%	13%

Students with Significant Cognitive Disabilities (SWSCDs)

● National Survey Results - ELA

Description	ELEM % who meet	MIDDLE % who meet	HIGH % who meet
Does not read any words when presented in print or Braille	22	19	18
Reads only a few words or up to pre-primer level	23	16	13
Primer to 1 st grade reading level	28	18	14
1 st grade to 2 nd grade reading level	17	19	15
Above 2 nd grade level to 3 rd grade level	8	18	21
Above 3 rd grade reading level	2	10	19

Video of Student Population of Oregon Extended Assessments

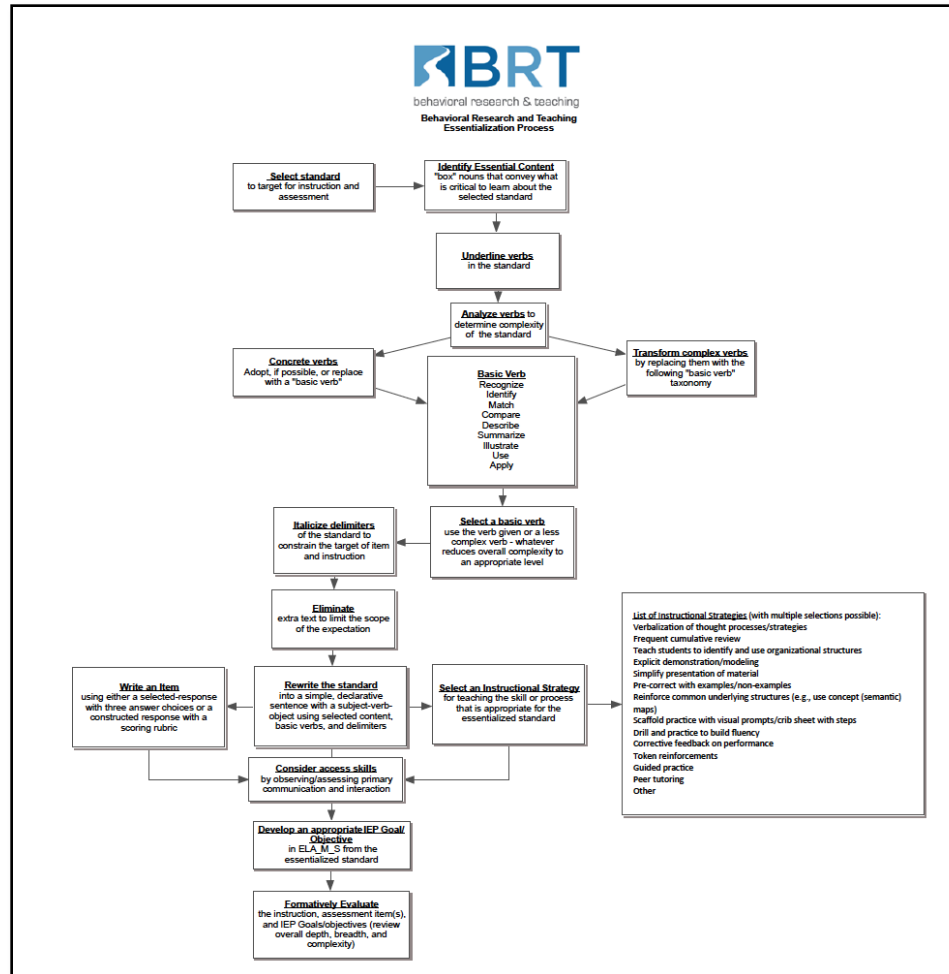


- The lowest functioning students in our schools
- Require intensive and pervasive support across all settings (e.g., home, school, community)
- Often require a full-time educational assistant for support at school
- SWSCDs are typically eligible for special education services due to Intellectual Disabilities, Multiple Disabilities, or Severe Autism

Essentializing Oregon's CCSS

- Select standard
- Code using essentialization system
- Reduce depth, breadth, and complexity by:
 - transforming complex verbs
 - limiting scope of content/verbs
 - eliminating extra text
- Generate the essentialized standard

Essentialization Flowchart



Save your eyes & check your handout

ORExt Items

- Items are linked to OR Content Standards by the Essentialized Standards
- Essentialized Standards are systematically reduced in:
 - Depth
 - Breadth
 - Complexity
(RDBC)

Item Development

- Content standard review (instructional priorities; test blueprint)
- Item writing (iterative process, including judgments from OR teachers)
 - Content review
 - Bias review
 - Alignment study
- Field testing
- Standard setting

What is the OR Extended Assessment?

- Extended Assessment = Oregon's alternate assessment based on alternate achievement standards (AA-AAS)
- The alternate assessment is a statewide accountability assessment designed for students with significant cognitive disabilities

What are Alternate Achievement Standards?

Cut scores



Achievement level descriptors

OR Statewide Assessment Options

- General Assessment (Smarter Balanced, OAKS)
 - With/Without accommodations
- ORExt
 - Embedded system of supports (level of support)
 - Universal design approach with multiple access options
 - Item difficulty rules of thumb
 - More content = more difficult
 - More challenging cognitive tasks = more difficult
 - More steps involved = more difficult
 - More prerequisite knowledge required = more difficult

Administration and Format

- Individually administered
- Substantially accommodated
- Flexible administration, using level of support that student requires to access item
- Items administered in standardized fashion
- Scoring is (0/1 = wrong/correct)
- One version
- Three levels of item difficulty
 - Low
 - Medium
 - High
- Universal design for assessment built in (e.g., low difficulty items have icons, simplified language, lower cognitive demand)

The ORExt Is

- RDBC; increased in terms of accessibility
- Designed to assess student academic knowledge and skills that are linked to grade level content standards
- Aligned to essentialized standards
- Administered in same grades as SBAC & OAKS
- Three content areas with grade-level administrations
 - English language arts (Grades 3, 4, 5, 6, 7, 8, & 11)
 - Mathematics (Grades 3, 4, 5, 6, 7, 8, & 11)
 - Science (Grades 5, 8, & 11)

What is the Purpose of the OR Extended Assessment?

- An accountability assessment is an indicator from states that informs the federal government whether or not students are being challenged with (and exposed to) critical content
- An accountability assessment holds states accountable for giving all students an opportunity to demonstrate their knowledge and skills

Four Performance Levels

- **Level 4:** similar to the former *Exceeds* level, for students whose performance is superior
- **Level 3:** similar to the former *Meets* level, for students who are consistently performing at expected levels
- **Level 2:** similar to the former *Nearly Meets* level, for students whose performance is not consistent enough to match proficiency expectations
- **Level 1:** similar to the former *Does Not Yet Meet* level, for students with extremely limited performances

What are the consequences of *Level 3* or *4* achievement?

- An IEP team will use a variety of information sources to make decisions for any student
- An IEP team may use success on the Extended Assessment **as part of a body of evidence** to inform the assessment decisions for the following year or to adjust instructional approaches for the student.
- A student who achieves a **Level 3 or 4** performance on an ORExt Assessment can count toward a school's Annual Measurable Objective (AMO) federal report for performance in a statewide assessment for that year and will provide the federal government with information about student success based on AA-AAS (1% Rule)

What are the consequences of *Level 1* or *2* achievement?

- Variety of information sources as **part of a body of evidence** to decide to:
 - Alter instruction to incorporate some of the content
 - Reassess the student in the coming year
 - Adjust instructional approaches for the student
 - Take no action and continue to provide the individualized instruction as they have done
- If the student **performs at Level 1 or 2** and took the minimum number of items required, the student may still count toward a school's AMO federal report for participation for statewide assessment for that year

Standard Setting



Educational Standard Setting

10:30-11:00 AM

- A process that allows a group of experts to make judgments regarding what a student should know in order to be a member of a given performance (achievement) category

Standard Setting Outcomes

- Quantitative value associated with minimal membership (Cut score)
- Qualitative definition of Achievement Level Descriptors (ALD) per category

What is the **Primary Question** When Setting Achievement Standards?

- How much does a student need to know in a given content area (e.g., Science) to be considered minimally competent?
 - What does that look like when represented quantitatively? (cut score)
 - What does that look like when described in words? (ALDs)

How are alternate achievement standards set?

- Variety of methods
- Variety of procedures
- Method and procedure are based on the nature of the data
- Bookmarking (Item mapping) process will be employed today

Bookmarking Standard Setting

- Items placed in order of difficulty using item response theory (IRT) calibration
- Using the order of difficulty suggested by these calibrated values, panelists mark the spot in the specially- constructed, ordered-item-booklet (OIB) to indicate where **the student just entering that category is expected to have an 80% change of responding to the item successfully**

ORExt Assessment Science

Outcomes: Participation (2013-14)

Oregon Students Total	Science Assessment				
	Grade 5 (42,649)	Grade 8 (43,522)	Grade 11 (42,633)	Total (128,804)	
Participating in alternate assessment against alternate standards	760 (1.8%)	642 (1.5%)	502 (1.2%)	1,904	1.5%

Source: Oregon Statewide Assessment data and <http://www.ode.state.or.us/search/page/?id=3225>.

Extended Assessment Science

Outcomes: Performance (2013-14)

Oregon Students who took AA-AAS	Science Assessment				
	Grade 5	Grade 8	Grade 11	Total (Number/Percent)	
Proficient or above in alternate assessment against alternate standards	433 (57%)	520 (81%)	136 (27%)	1,089	57%

Source: Oregon Statewide Assessment data and <http://www.ode.state.or.us/search/page/?id=3225>.

ORExt Assessment Math

Outcomes: Participation (2013-14)

Oregon Students Total	Mathematics Assessment								
	Grade 3 (42,649)	Grade 4 (42,858)	Grade 5 (42,752)	Grade 6 (42,449)	Grade 7 (43,202)	Grade 8 (43,522)	Grade 11 (42,633)	Total (300,065)	
Participating in alternate assessment against alternate standards	934 (2.2%)	944 (2.2%)	957 (2.2%)	889 (2.1%)	794 (1.8%)	740 (1.7%)	520 (1.2%)	5,778	1.9%

Source: Oregon Statewide Assessment data and <http://www.ode.state.or.us/search/page/?id=3225>.

Extended Assessment Math

Outcomes: Performance (2013-14)

Oregon Students who took AA-AAS	Mathematics Assessment								
	Grade 3 (934)	Grade 4 (944)	Grade 5 (957)	Grade 6 (889)	Grade 7 (794)	Grade 8 (740)	Grade 11 (520)	Total (5,778)	
Proficient or above in alternate assessment against alternate standards	281 (30%)	241 (25.5%)	179 (18.7%)	84 (9.4%)	180 (22.7%)	172 (23.2%)	73 (14.0%)	1,210	20.9%

Source: Oregon Statewide Assessment data and <http://www.ode.state.or.us/search/page/?id=3225>.

ORExt Assessment Reading

Outcomes: Participation (2013-14)

Oregon Students Total	Reading Assessment									
	Grade 3 (42,649)	Grade 4 (42,858)	Grade 5 (42,752)	Grade 6 (42,449)	Grade 7 (43,202)	Grade 8 (43,522)	Grade 11 (42,633)	Total (300,065)		
Participating in alternate assessment against alternate standards	1,153 (2.7%)	1,088 (2.5%)	1,043 (2.4%)	888 (2.1%)	782 (1.8%)	681 (1.6%)	539 (1.3%)	6,174	2.1%	

Source: Oregon Statewide Assessment data and <http://www.ode.state.or.us/search/page/?id=3225>.

Extended Assessment Reading

Outcomes: Performance (2013-14)

Oregon Students who took AA-AAS	Reading Assessment								
	Grade 3 (1,153)	Grade 4 (1,088)	Grade 5 (1,043)	Grade 6 (888)	Grade 7 (782)	Grade 8 (681)	Grade 11 (539)	Total (6,174)	
Proficient or above in alternate assessment against alternate standards	885 (76.8%)	765 (70.3%)	728 (69.8%)	457 (51.2%)	546 (69.8%)	398 (58.4%)	336 (62.3%)	4,115	66.7%

Source: Oregon Statewide Assessment data and <http://www.ode.state.or.us/search/page/?id=3225>.

Setting Cut Scores



General Process

- Three judgment rounds per grade level
 - Round 1: Individual Judgments
 - Round 2: Consensus building
 - Round 3: Evaluation of outcomes with impact data

Process

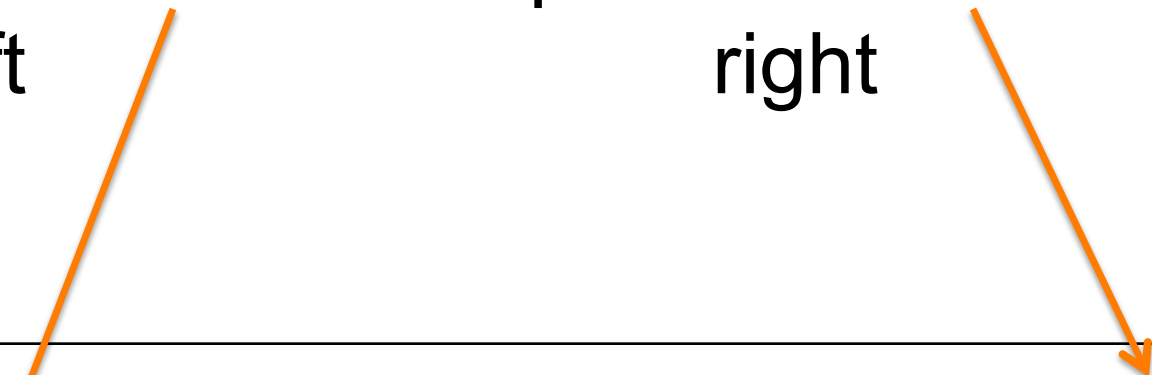
- All portions of the standard setting will be conducted in grade-level groups
- Each Group has a Table Facilitator
- Standard setters (Oregon Teachers)
 - Two special educators
 - One general educator
- BRT Table Facilitator
 - Manages time and materials
 - Keeps discussion focused
 - Takes notes

Materials

- Grade level Oregon Essentialized Standards packets
- Grade level ordered-item booklets:
 - Scoring rubrics are within the item text
 - Item difficulties are recorded on each page
- Individual rating sheet
 - Write observations regarding item difficulty
 - Record the three items that separate the four performance levels
- Overall process evaluation sheets

Structure of the OIBs

- Easiest item in front
- Item numbers top left
- Most difficult item at the end
- Item difficulty top right




Oregon Extended Assessment - Grade 3 English Language Arts - 2014-2015				Item Difficulty: -1.514	
Item 1	Option:	A	B	C	Correct Scoring (0/1)
1 - Here are three pictures. (Point to					

Items in Booklet

- Booklets contain all information that teachers used at the top – *Scoring Protocol*
- Booklets contain all information that was presented to students in the middle and bottom – *Student Materials*

Bookmarking Expectations

- Color-coded
 - Round 1= **Green** post-its
 - Round 2= **Blue** post-its
 - Round 3= **Pink** post-its
- Write the item number and your initials on the post-it, so there can be no confusion regarding which item you intend to mark (booklets are 2-sided)



Please sign the pink post-it note, which is your final recommendation.

Round 1: Item level considerations

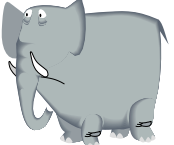
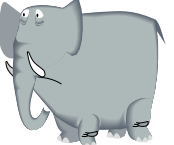
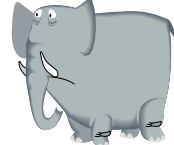
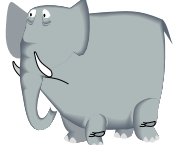
- ***Individual*** judgments
 - What makes this item more difficult than the one before it? Capture this information in summary for use in Round 2.
 - What knowledge, skills, and abilities must be applied correctly to respond to this item?
 - Record the item numbers on your blue rating sheets throughout Rounds 1, 2, and 3

Round 1: Process

11:00-12:00 PM

- Panelists work **independently** to determine the location for the three items that separate the four categories of performance
 - Please do not discuss item difficulty
 - Procedural questions will be answered
- Place 3 post-it notes to represent four categories
- Use **green** post-it notes to mark the location, record the item number, and initial the post- it note
- **Categories**
 - Level 4
 - Level 3
 - Level 2
 - Level 1

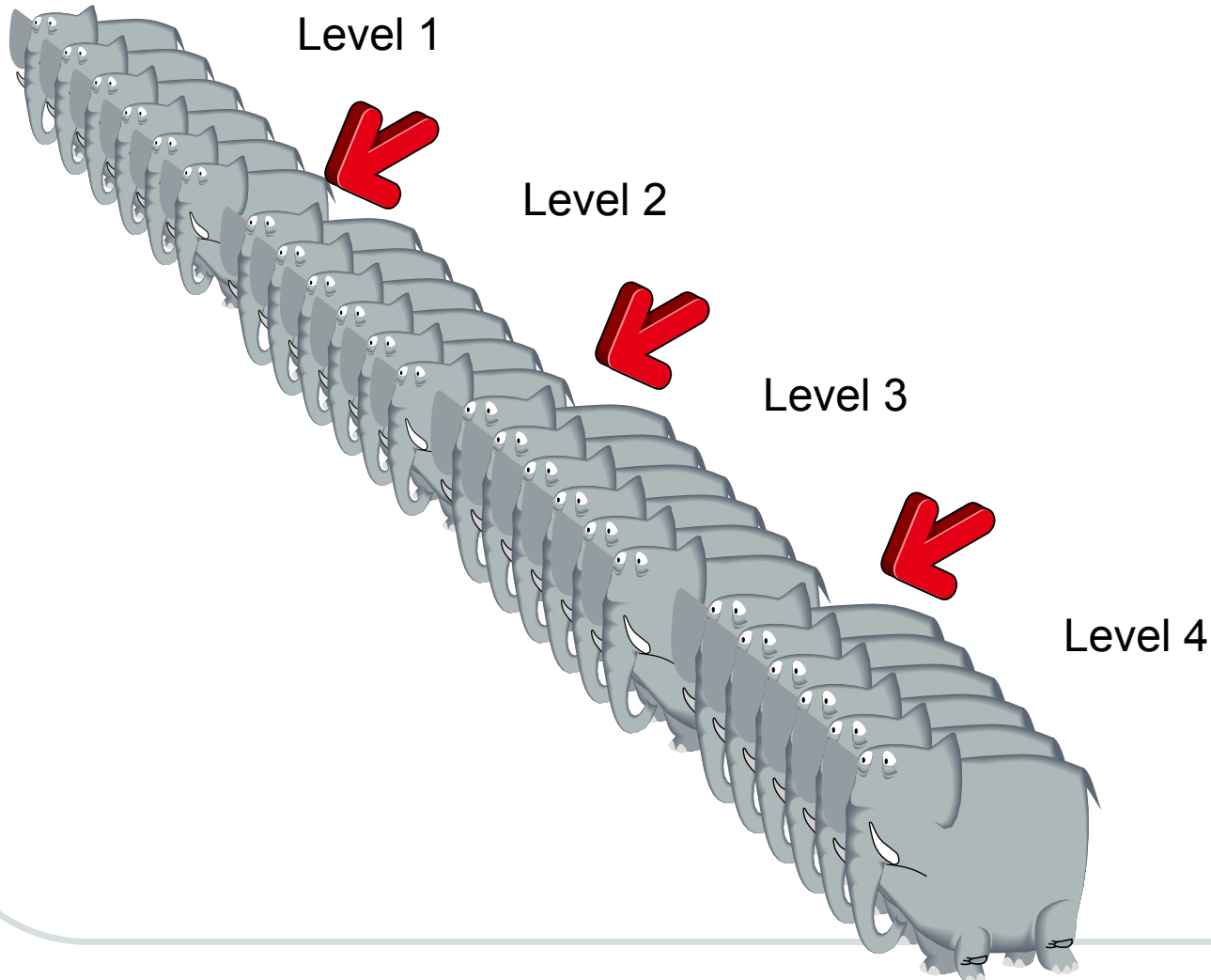
Relationship Between Categories and Cut scores

Level 1	Level 2	Level 3	Level 4
Extremely limited to no performance of knowledge and skills	Inconsistent performance of knowledge and skills	Consistent performance of knowledge and skills	Superior performance of knowledge and skills
			

Meaning of a Cut Score

- Items at the bookmark indicate that students have mastery of all previous items (likely to know all the correct responses) and therefore meet the minimum requirements of category membership
- Remember, individuals within a category will display a range of scores

Placing the Bookmarks



Bookmarking Decision Rules

- Place your first post-it on the item that you believe a **student just entering the proficient category** has an 80% chance to answer correctly.
- Place your second post it on the item that you believe a **student just entering the superior category** has an 80% chance to answer correctly.
- Place your third post-it on the item that you believe **student who is just entering the nearing proficiency category** has an 80% chance to answer correctly.

Round 2: Group Consensus

12:00-1:00 PM

- Table leader consolidates scores on Excel spreadsheet and discusses range of values with participants
- Consider only the range of possibilities suggested by the group and discuss the possible outcomes based on a definition of the category label
- Use your descriptions of what makes a score more difficult than the preceding score to assist with the decision-making
- Make new bookmark selections that capture your new judgment
- Use **blue** post-it notes to mark the location, record the item number, and initial the post- it note

The Scale of the test (hypothetical)

Students by Ability

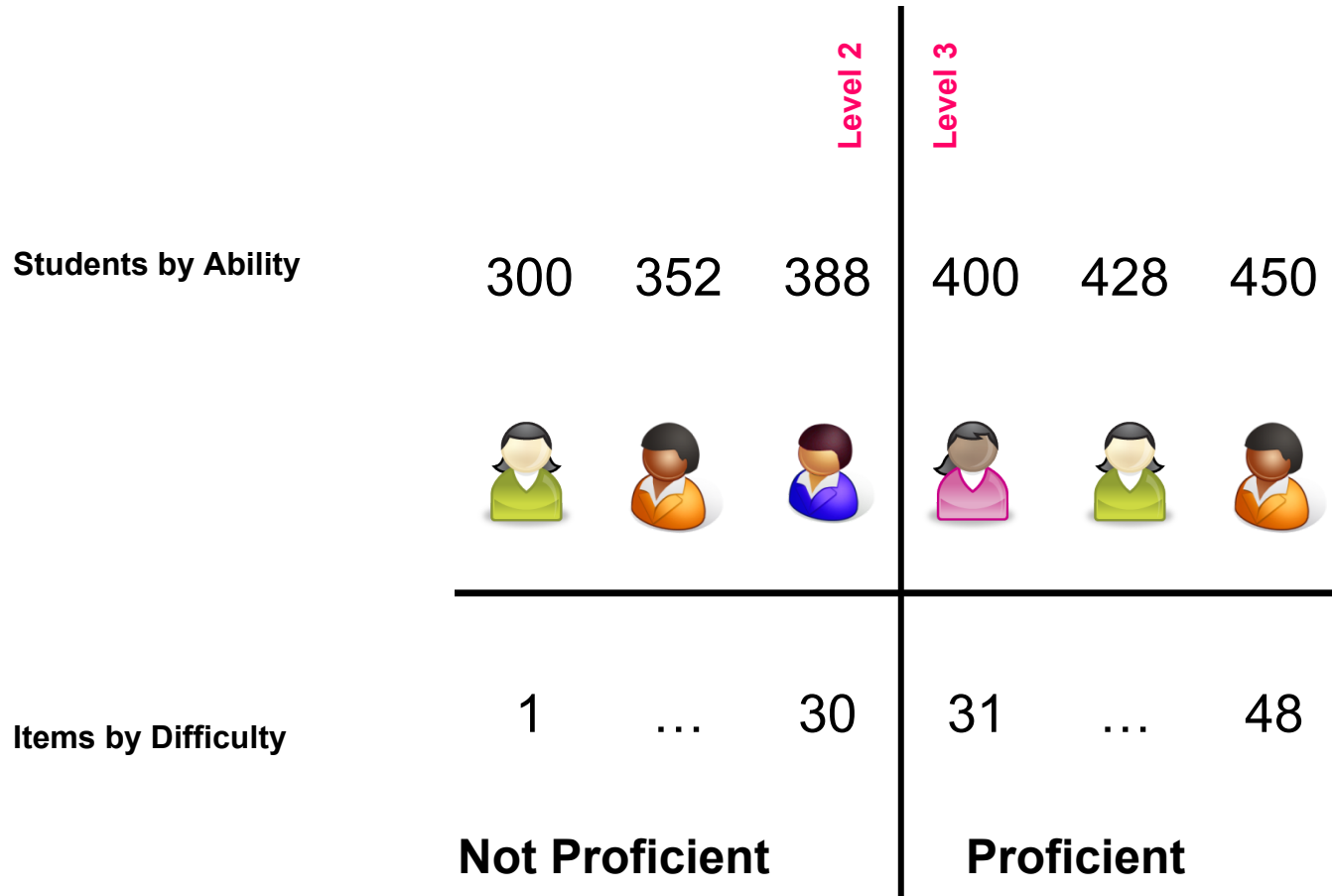
300 304 309 450



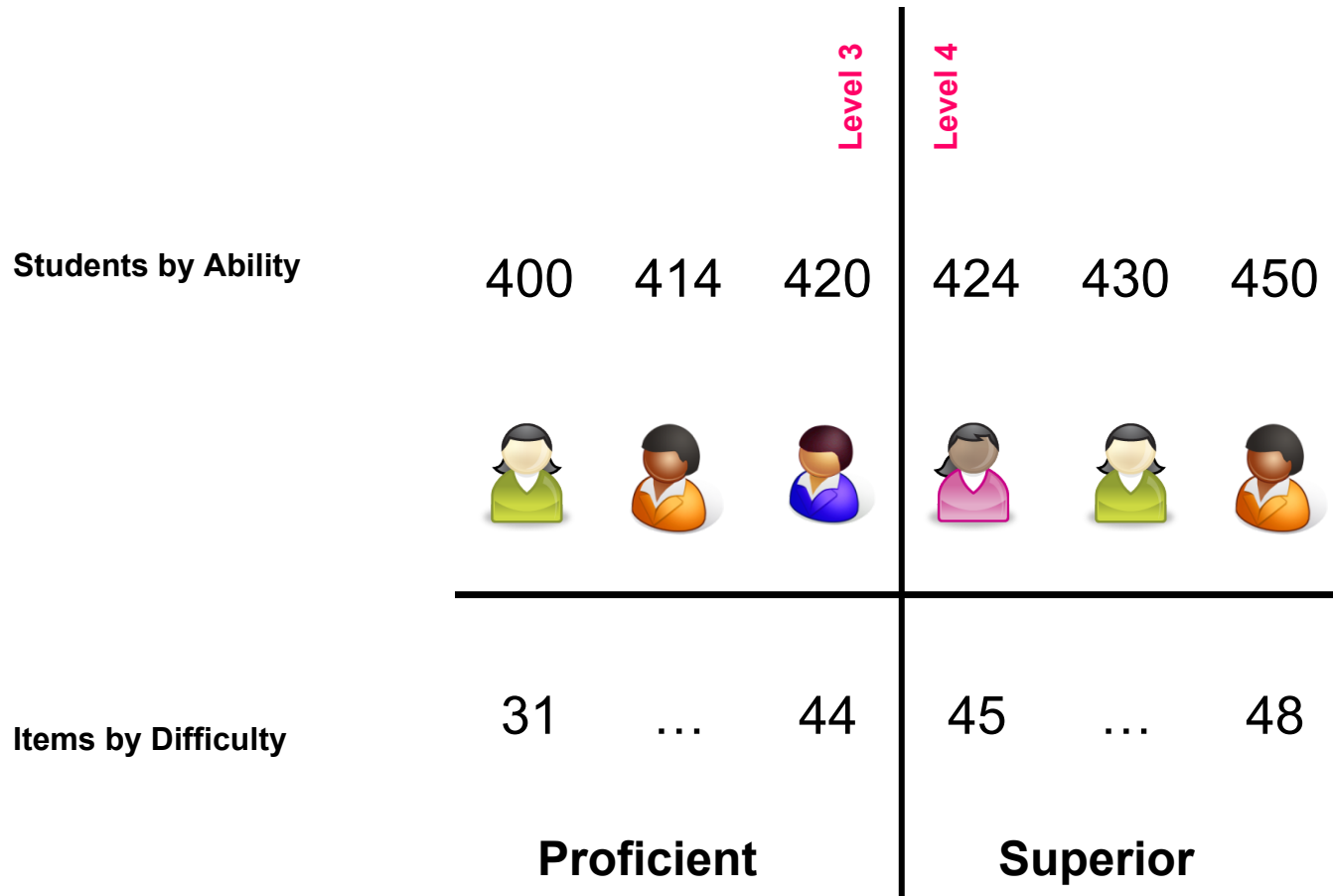
Items by Difficulty

1 2 3 48

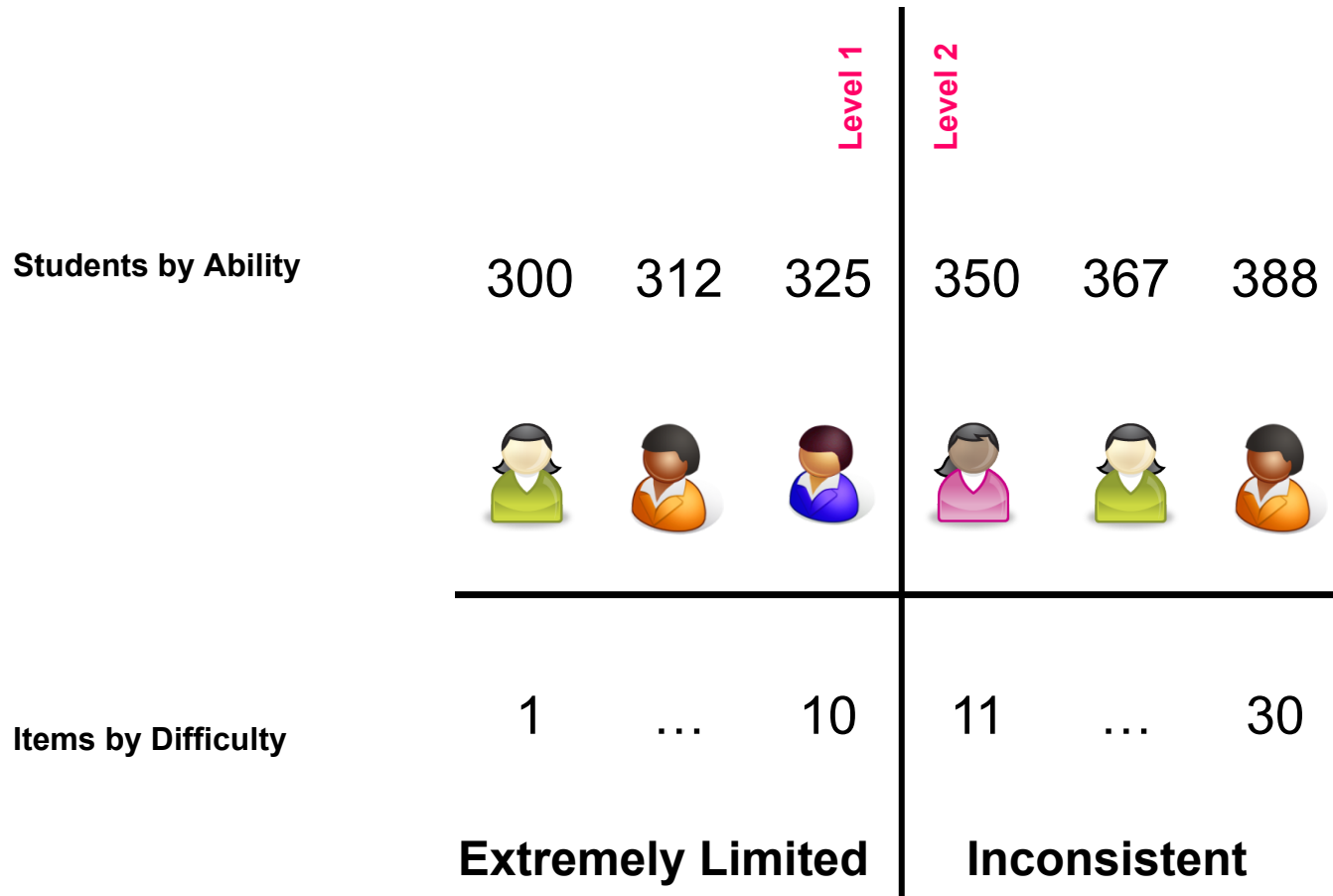
Test Scale – First Decision



Test Scale – Second Decision



Test Scale – Third Decision



Summary

- Items are ranked according to difficulty
- Student ability is ranked on the same scale (higher student abilities are associated with success on higher difficulty items)
- We use the item difficulties associated with the selected item to generate impact data

Break

1:15 – 1:30 PM

Round 3: Data-based Decisions

1:15 -2:30 PM

- Facilitation Team presents impact data based on Round 2 outcomes
- Individuals may adjust bookmarks from Round 2
- With impact data in mind, the group discusses the effectiveness of the proposed cut score
- Discussion between grade level groups with data (high points, justifications, sticky spots, and resolution)
- Use **pink** post-it notes to mark the location, record the item number, and sign the post-it note

Impact Data Review

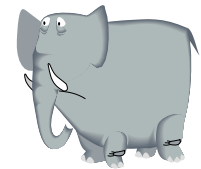
- Round 1 & 2 Complete
- Review percentages of students who would be placed in each performance level based on the selected cut scores
- Revise cut scores, if needed, for final determinations

How do we know it's "right"?

- Look for a reasonable pattern that is cogent and defensible (arguable)
- Do the data appear to progress reasonably?
- Are the results consistent with, or an improvement on prior proficiency percentages?
- ELA & Math
 - Do the data spike/dip at any one grade?
 - Outcomes should be well-articulated across grades and cohesive within subjects

Sample Results (Hypothetical)

	Nearly Meets	Meets	Exceeds
Hypothetical Cutscore (Median)	10	35	45



Impact data

	Does not yet meet	Nearly meets	Meets	Exceeds
Hypothetical Percentages	15%	15%	60%	10%

Cut Score Rationale Statement

- After Round 3, please write the rationale used to generate your final cut scores; this can be recorded on the inside cover of the final page of the OIB
- If the group agrees about the rationale, only one statement needs to be recorded

Establishing Achievement Level Descriptors



Achievement Level Descriptors vs. Content Standards

2:30 – 3:30 PM

- Achievement Level Descriptors (ALDs): Concise statements of the performance required for a student to demonstrate mastery of the content (by level or category)
- Content Standards: Minimum descriptions of what students are expected to learn by subject area, by grade. Minimum that teachers should be teaching.

Achievement Level Descriptor Overview

- ALDs describe what students know and can do based on their performance on statewide assessments in the various content areas.
- The ALDs are based on a sampling of a larger set of testable content outlined in the Oregon Content Standards (RDBC) and give a concise yet general description of what most students know and can do within a particular level of achievement.
- Students who score at or within a particular level of achievement possess the bulk of the abilities described at that level and generally have mastered the skills described in the preceding achievement levels.

ALD Categories

- ALDs for each subject area are developed to establish the minimum scores required for:
 - Level 4
 - Level 3
 - Level 2
 - Level 1

Activity

Read through the ALDs and consider the student you would consider minimally competent in this area (in light of the RBDC of the standards). Answer the following questions:

1. Is this language clear enough to communicate student performance to parents?
2. Does the definition accurately capture a reasonable expectation for this population, at this grade, in keeping with the grade level content standards (RBDC)?
3. Is the expectation for this population a sufficiently appropriate parallel to expectations for students taking the general benchmark assessment?
4. Suggested edits? Please record on your hard copies and flag for us with a **white** post-it note

Summary

3:30 – 4:00 PM

- Results across grades
- Impact results across grades
- ALD discussion
- **Please fill out your yellow Standard Setter Evaluation form and give it to your Table Facilitator**
- State Board of Education adoption
- Use of Cut scores and ALDs for AMO determinations and score reports

References

- CTB Standard Setting Handbook 2005 CTB/McGraw-Hill LLC
- Cizek, G. J. (Ed.). (2012). *Setting performance standards: Foundations, methods, and innovations*. New York: Routledge.
- Smarter Balanced Achievement Level Descriptors:
<http://www.smarterbalanced.org/achievement-levels/>
- First Contact Census Handout, Dynamic Learning Maps, 2013
http://dynamiclearningmaps.org/sites/drupal.dynamiclearningmaps.org/files/documents/First_Contact_Handout_8_6_13.pdf

Questions?

- Brad Lenhardt, Monitoring and Assessment Specialist at Brad.Lenhardt@state.or.us
- Dan Farley, Behavioral Research & Teaching at dfarley@uoregon.edu
- Gerald Tindal, Behavioral Research & Teaching at gerald.tindal@mac.com

Safe Travels & Happy Summer!

