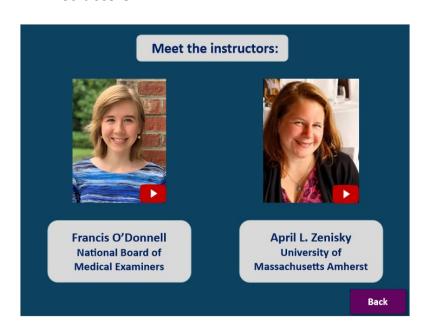
DM21 SLIDES (Results Reporting, Version 1.0)

1. Module Overview

1.1 Module Cover (START)



1.2 Instructors



1.3 Designers



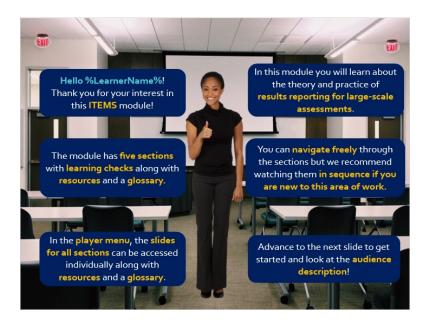
1.4 Welcome



Untitled Layer 1 (Slide Layer)



1.5 Overview



1.6 Target Audience



1.7 Expecations (I)



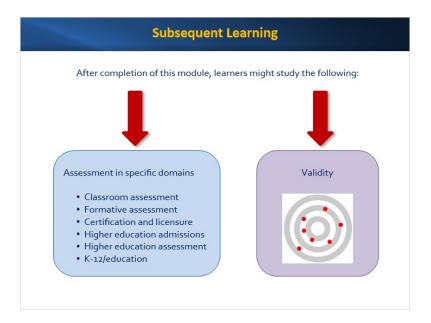
1.8 Expectations (II)



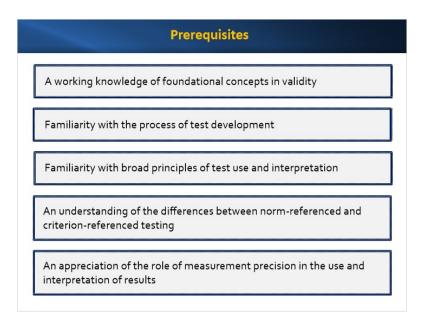
1.9 Learning Objectives



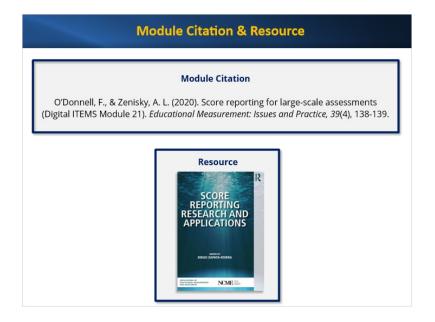
1.10 Subsequent Learning



1.11 Prerequisites



1.12 Module Citation & Resource

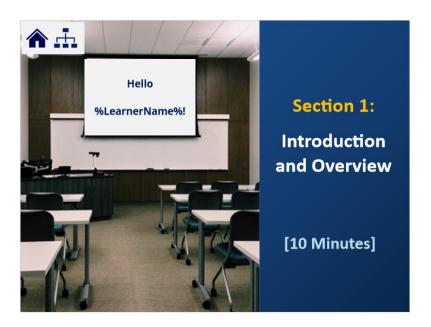


1.13 Main Menu



2. Section 1: Introduction & Overview

2.1 Cover: Section 1



2.2 Objectives: Section 1



2.3 Topic Selection



2.4 Bookmark: A Seismic Shift



2.5 A Seismic Shift I



2.6 More about Results Reporting



2.7 Ways of Describing Test Performance



2.8 Score reporting

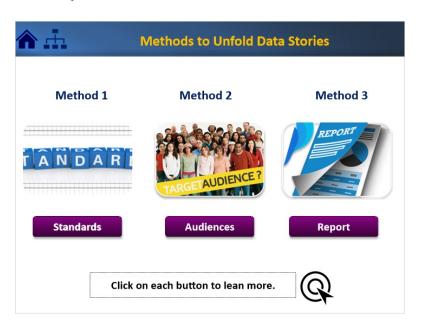


DM21 SLIDES 11 / 101 12/2/2020

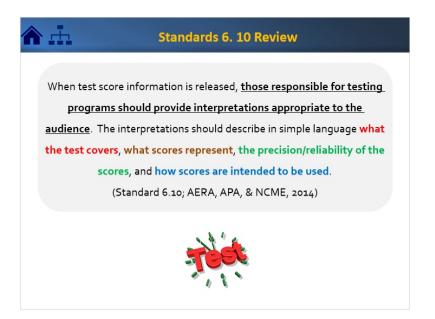
2.9 A Seismic Shift I



2.10 Topic Selection



2.11 Standards Overview



2.12 Promoting Meaning



2.13 Context for Meaning



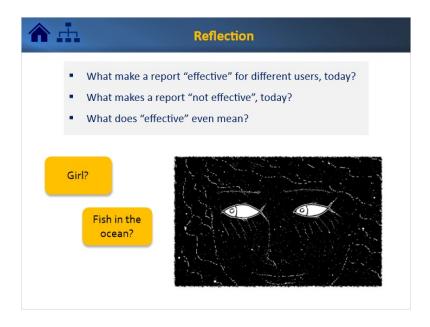
2.14 Bookend: Standard



2.15 Report Overview



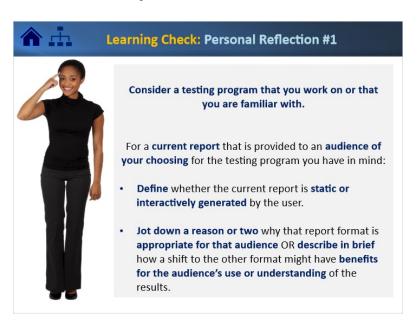
2.16 Reflection



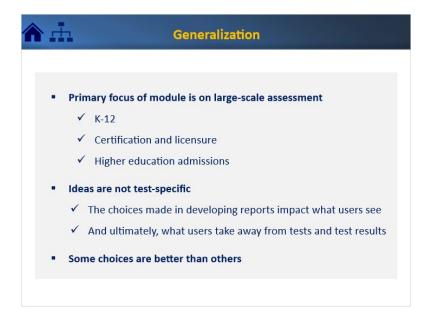
2.17 User needs



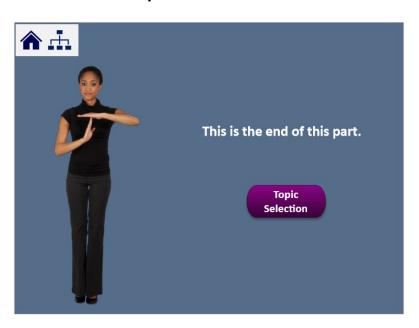
2.18 Personal Reflection #1



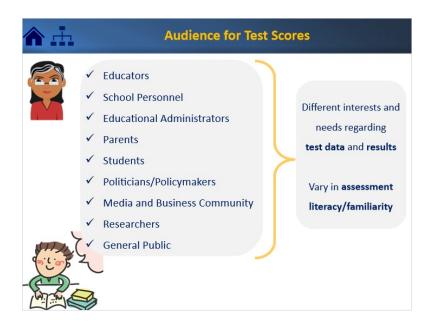
2.19 Boundaries



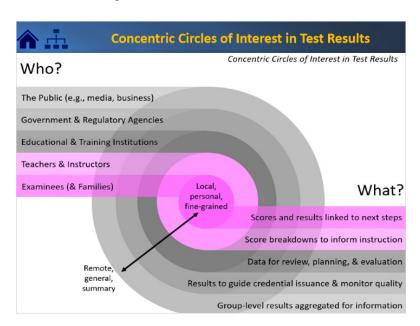
2.20 Bookend: Report



2.21 Audience Overview



2.22 Circles of Interest



2.23 Priortize Intended Users



2.24 Bookend: Audience



2.25 Bookmark: Deconstructing a Report



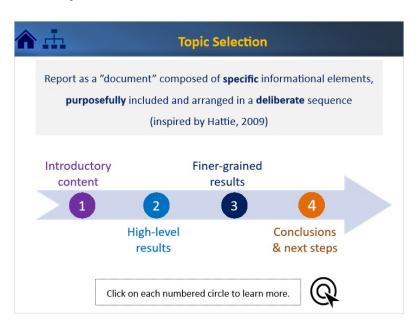
2.26 What is a Report?



2.27 Deconstructing a report II



2.28 Topic Selection



2.29 Introductory Content (I)



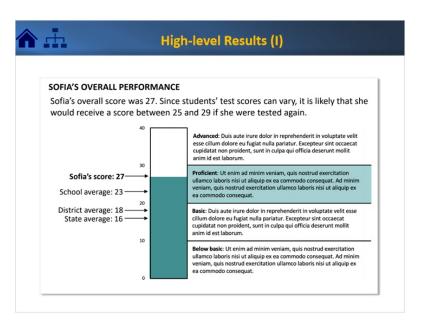
2.30 Introductory Content (II)



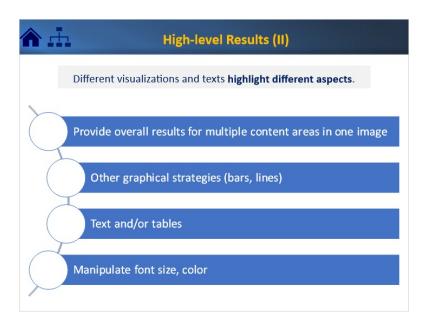
2.31 Bookend: Introductory Content



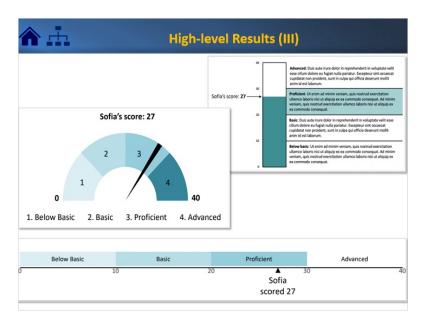
2.32 High-level Results (I)



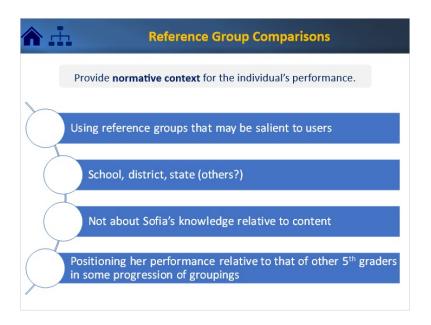
2.33 High-level Results (II)



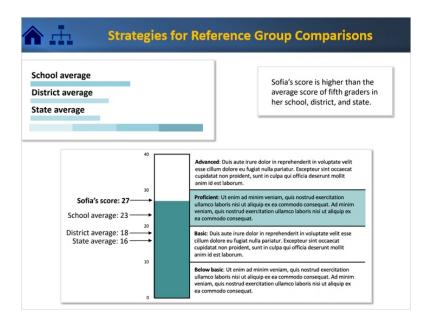
2.34 High-level Results (III)



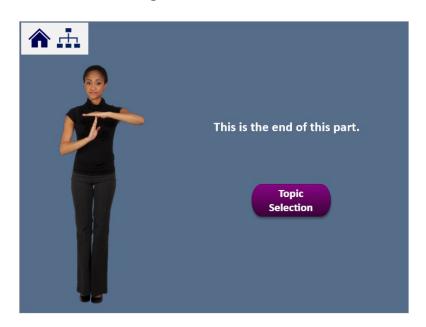
2.35 High-level Results (IV)



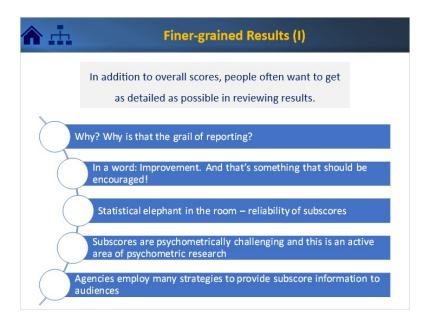
2.36 High-level Results (V)



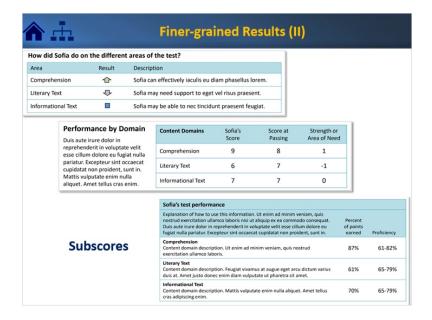
2.37 Bookend: Higher-level Results



2.38 Finer-grained Results (I)



2.39 Finer-grained Results (II)



2.40 Finer-grained Results (III)



2.41 Bookend: Finer-grained Results



2.42 Other Information



2.43 Bookmark: Other Information



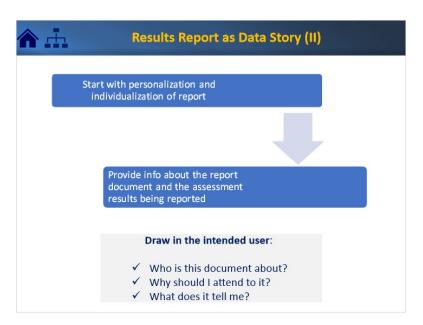
2.44 Bookmark: Reports as Data Stories



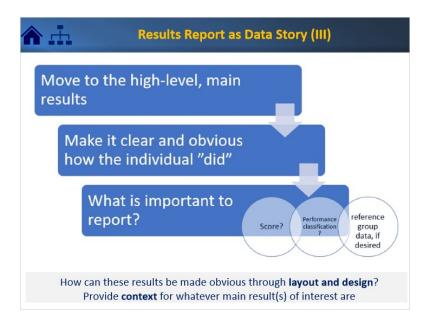
2.45 Results Report as Data Story (I)



2.46 Results Report as Data Story (II)



2.47 Results Report as Data Story (III)



2.48 Results Report as Data Story (III)



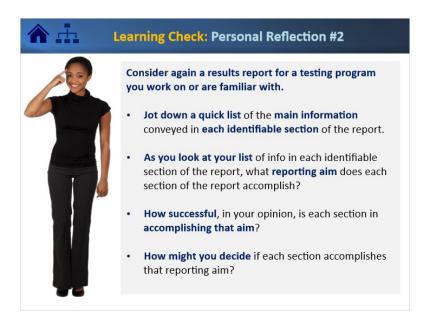
2.49 Results Report as Data Story (IV)



2.50 Results as Data Story (V)



2.51 Personal Reflection #2

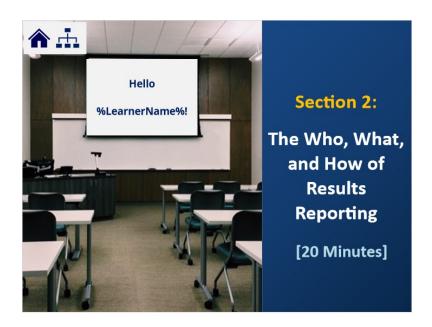


2.52 End of Section 1



3. Section 2: The Who, What, and How of Results Reporting

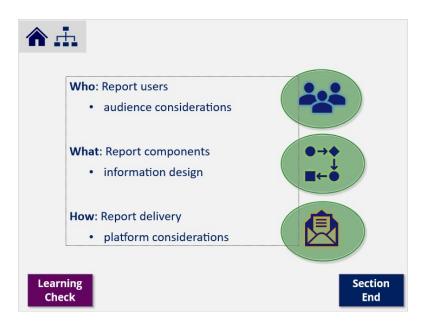
3.1 Cover: Section 2



3.2 Objectives: Section 2



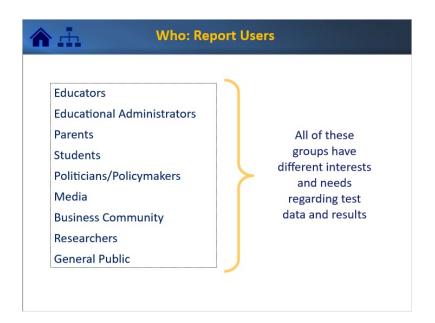
3.3 Topic Selection



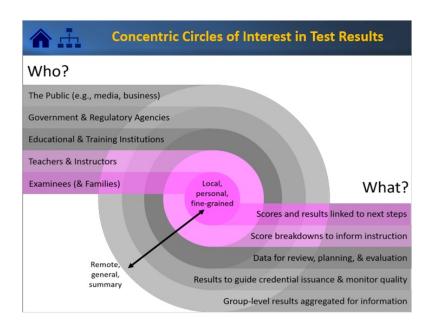
3.4 Bookmark:Who



3.5 Who I



3.6 Who II



3.7 Who III



analysis to connect the score report design process and report specifics to audience characteristics, noting:

"Although most design guidelines focus on making score reports understandable to people who are not testing professionals, audiences should be defined by more than just their lack of statistical knowledge.



3.8 Who IV



Audience Analysis (Zapata-Rivera & Katz, 2014)

Needs

- What are the users' goals in using the report?
- · What do they want to accomplish?

Knowledge

- · What do users already know about the assessment and its context?
- · What knowledge gaps might impact their understanding?

Attitudes

- What are users' perceptions of the assessment?
- How might the design of the report contribute to a productive attitude about the results?

3.9 Bookend: Who



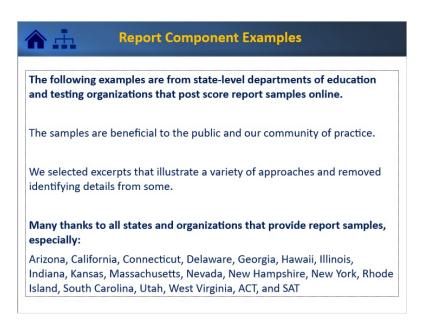
3.10 Bookmark: What



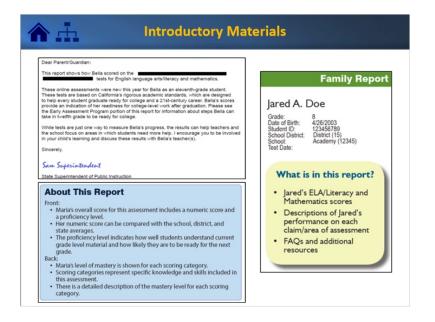
3.11 What I



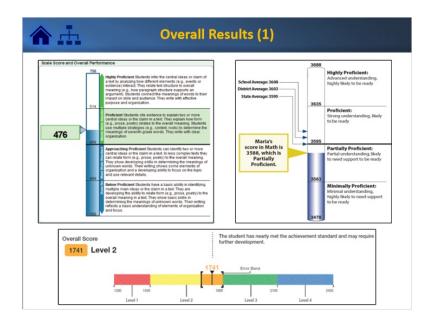
3.12 What II



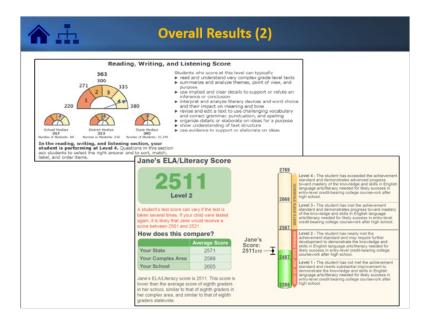
3.13 What III



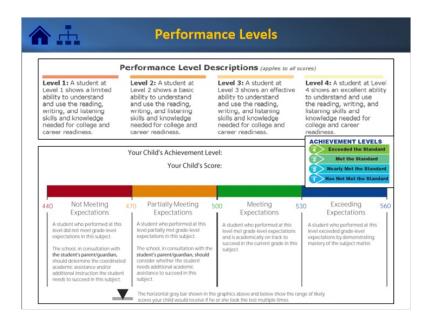
3.14 What IV



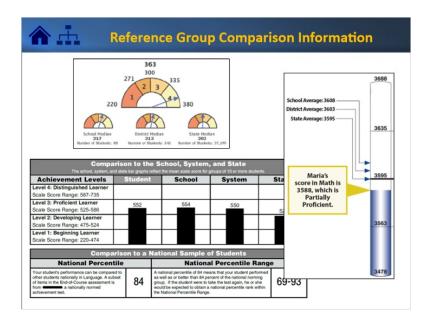
3.15 What V



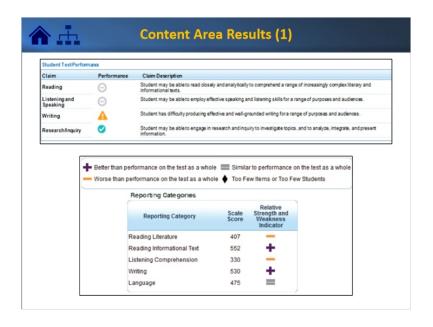
3.16 What VI



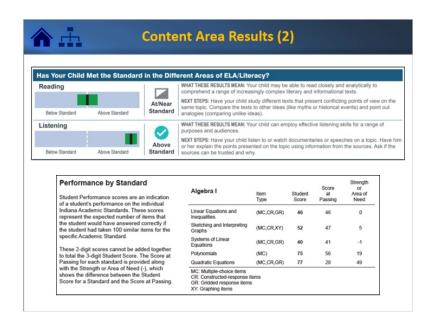
3.17 What VII



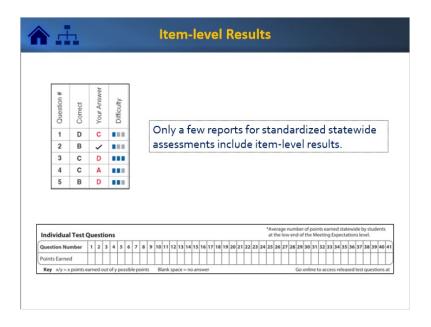
3.18 What VIII



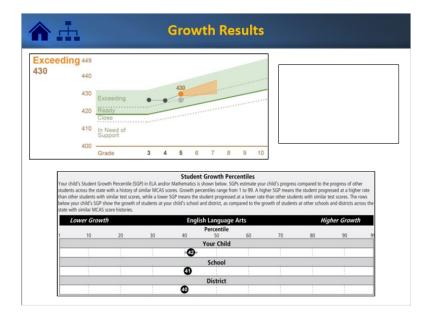
3.19 What IX



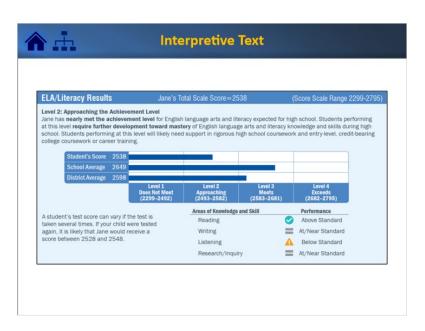
3.20 What X



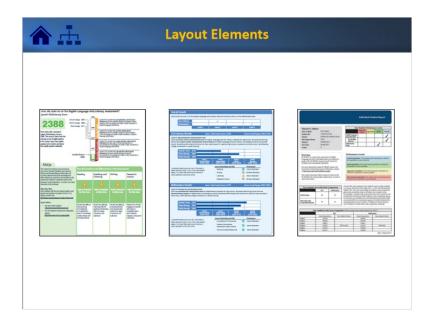
3.21 What XI



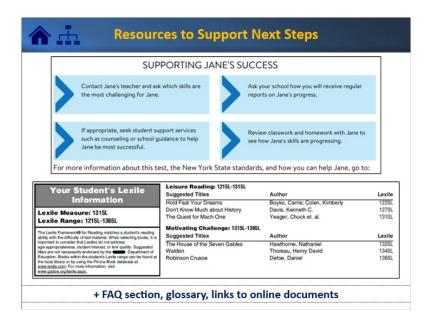
3.22 What XII



3.23 What XIII



3.24 What XIV



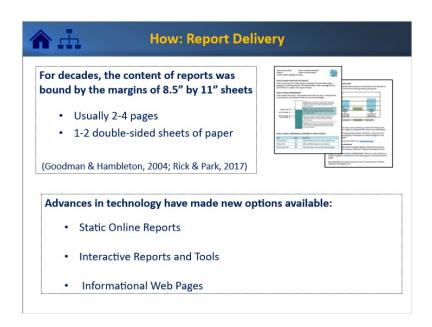
3.25 Bookend: What



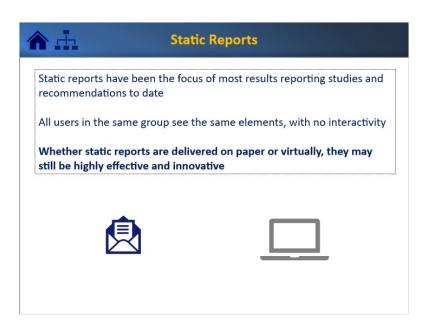
3.26 Bookmark: How



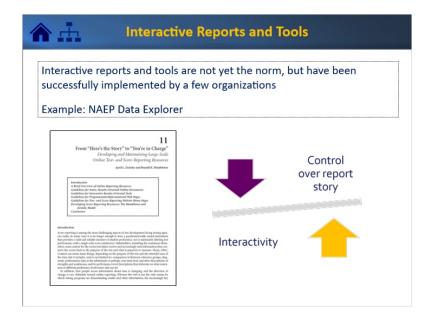
3.27 How I



3.28 How II



3.29 How III



3.30 How IV



3.31 How V



3.32 How VI

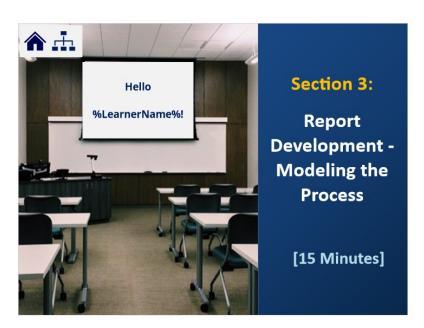


3.33 Bookend: How



4. Section 3: Report Development

4.1 Cover: Section 3



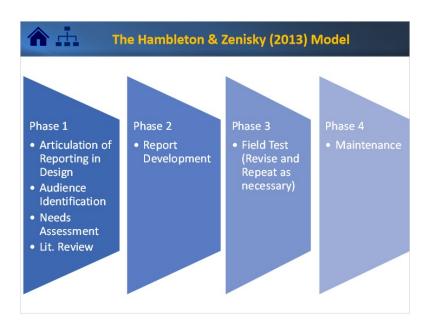
4.2 Objectives: Section 3



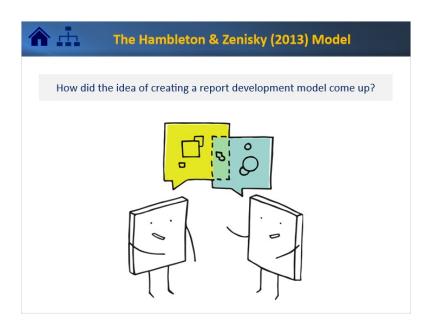
4.3 Interview



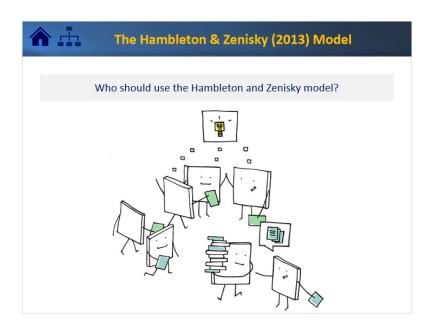
4.4 Model



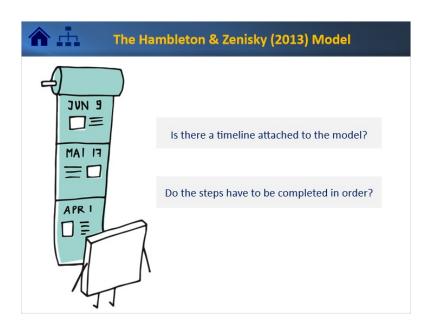
4.5 Model: How



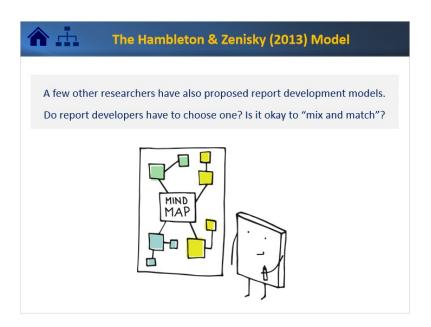
4.6 Model: Who



4.7 Model: Timeline



4.8 Model: Mix & Match



4.9 Model: Step 1



4.10 Model: Step 2



4.11 Model: Step 3



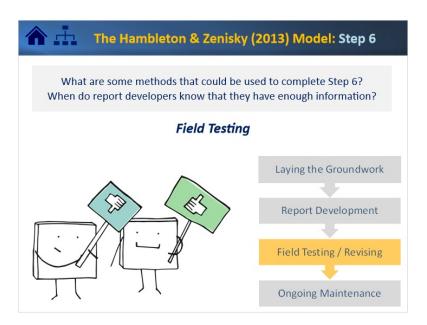
4.12 Model: Step 4



4.13 Model: Step 5



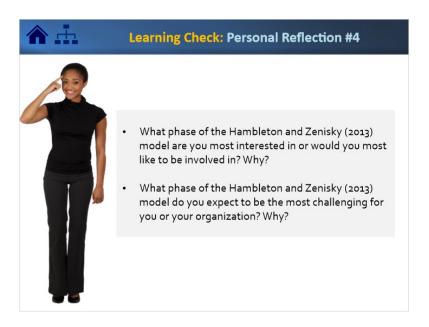
4.14 Model: Step 6



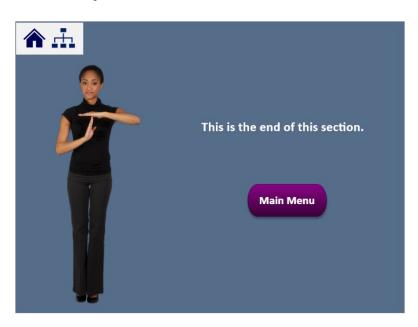
4.15 Model: Step 7



4.16 Learning Check: Personal Reflection #4

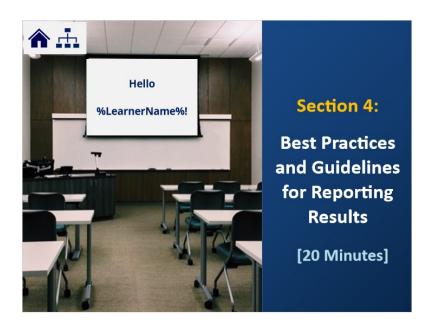


4.17 End of Section 3



5. Section 4: Standards and Guidelines

5.1 Cover: Section 4



5.2 Objectives: Section 4



5.3 Topic Selection



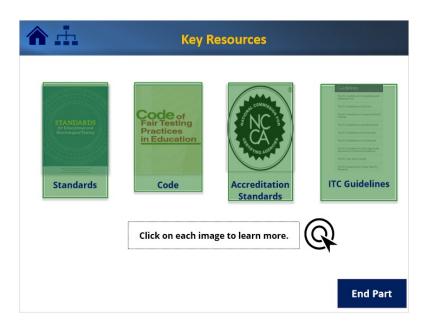
5.4 Resource Overview (I)



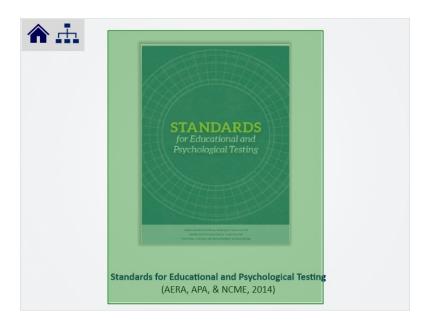
5.5 Resource Overview (I)



5.6 Resource Selection



5.7 Bookmark: Joint Standards



5.8 AERA et al. (2014) Standards



5.9 Standards Clusters

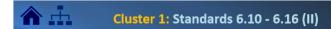


Standards for Reporting and Interpretation

6.10: "When test score information is released, those responsible for testing programs should provide interpretations appropriate to the audience. The interpretations should describe in simple language what the test covers, what scores represent, the precision/reliability of the scores, and how scores are intended to be used." (p. 119)

Commentary suggests that research be conducted to investigate if reports and other interpretive materials are interpreted as intended

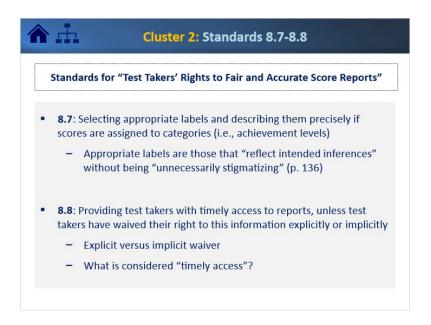
5.10 Additional standards



Additional standards for "Reporting and Interpretation" (Cluster 1):

- **6.11**: Ensuring the quality (especially validity) of automatically generated score interpretations
- 6.12: Not reporting individual scores unless there is appropriate evidence to support individual-level interpretations of results
- 6.13: Handling material errors in results reports
- 6.14: Maintaining and using individually identifiable test score information
- 6.15: Maintaining more detailed records if needed
- 6.16: Protecting the confidential nature of test takers' scores and ancillary information

5.11 Cluster 2: Standards 8.7-8.8



5.12 Standards Clusters



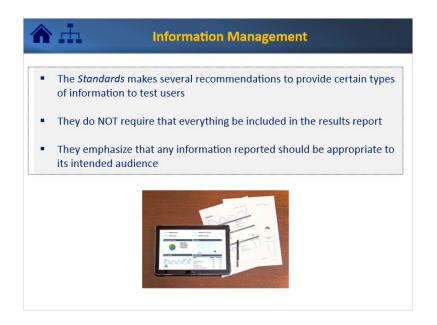
5.13 Standard 1.1



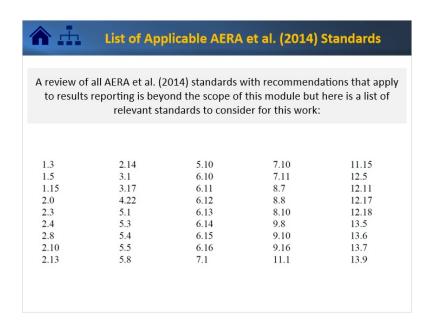
5.14 AERA standards



5.15 Recommendations to test users



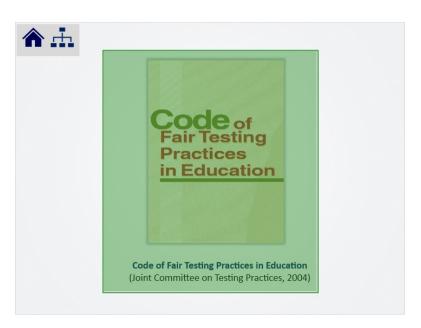
5.16 AERA standard list



5.17 Bookend: Joint Standards



5.18 Bookmark: Code

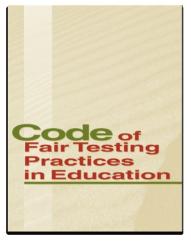


5.19 Code of fair testing

Prepared by the Joint Committee on Testing Practices Included the same organizations that worked on the AERA et al. Standards (2014) and others, such as the National Association of School Psychologists and the National Association of Test Directors A practical guide designed to cover testing in education but not employment, licensure, or certification testing Available as a free PDF on the website of the APA

pdf (Slide Layer)





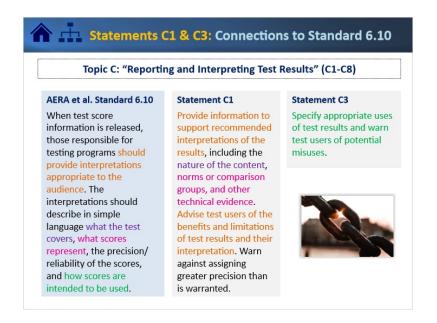
5.20 Code Alignment



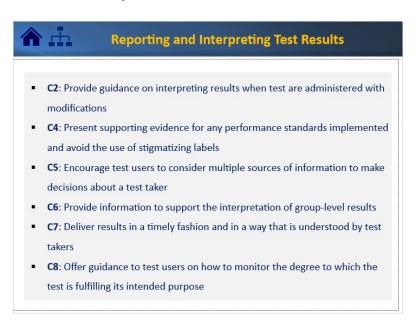
5.21 Code Organization



5.22 Reporting and Intepreting Results



5.23 Other responsibilities



5.24 Informing Test Takers

Topic D: Informing Test Takers

- No distinction between test user and test developer roles
- Introductory statement echoes many of the ideas in the AERA et al. (2014)
 Standards:

"Test developers or test users should inform test takers about the nature of the test, test taker rights and responsibilities, the appropriate use of scores, and procedures for resolving challenges to scores." (p. 10)

5.25 Recommendations for test user and test developer

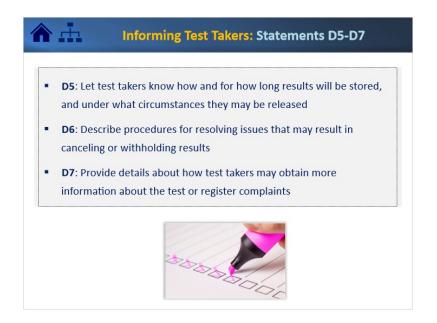
Informing Test Takers: Statements D1-D4

- Recommendations cover test users' or test developers'
 responsibility to:

 D1: Inform test takers of key features of the test prior to test administration
- D2: Offer information to help test takers decide whether or not to take a test if it is optional
- D3: Communicate details about test takers' rights pertaining to test administration (e.g., right to retake tests or have them rescored)
- D4: Inform test takers about their responsibilities (e.g., knowing the intended purposes and uses of the test, following directions, and performing at capacity)

DM21 SLIDES 71 / 101 12/2/2020

5.26 Recommendation Continued



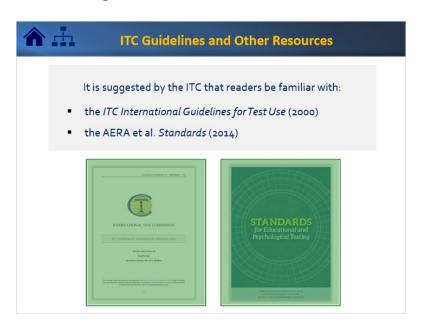
5.27 Bookend: Code



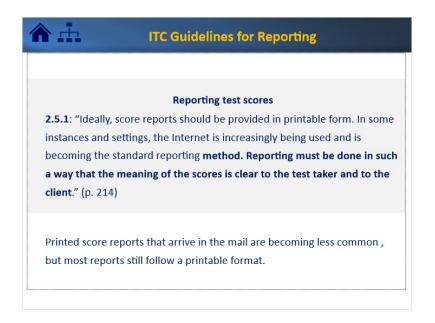
5.28 Bookmark: ITC Guidelines



5.29 ITC Alignment



5.30 Clusters pertaining results reporting



5.31 Example of methods



5.32 Guidelines of responsibilities

Responsibilities and What to Include

2.5.1.2: "... anyone who receives the scores has appropriate guidance in interpreting them," and evidence should be collected to show that "reports allow users to make defensible interpretations" (p. 214)

2.5.1.3: "Create computer-generated reports with an explanation of the test and the meaning of scores that can help mediate technical issues and that will e appropriate for their recipients." (p. 214)

5.33 ITC Guidelines recommendations

Additional Recommendations

The *ITC Guidelines* recommend clarifying appropriate uses for different types of scores, taking precision into consideration (2.5.1.5)

Other guidelines address:

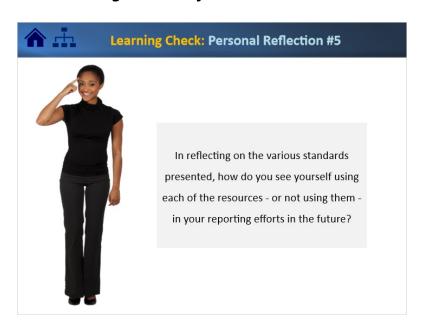
- Using data warehouses as needed (2.5.1.4)
- The possibility of enlisting the help of public relations experts to communicate results to the media and policymakers (2.5.1.6)
- Several steps for maintaining the security of results reports
 (2.5.2.1-2.5.2.5)

5.34 Bringing it all together

Bringing it All Together: Conclusions

- The AERA et al. (2014) Standards should be "required reading"
- Other sources (JCTP Code, NCCA Standards, and ITC Guidelines) also provide valuable information and may be required reading depending on one's field
- None of the sources provide step-by-step instructions for developing a perfect report (there is no one-size-fits-all solution!)
- All sources provide key recommendations for developing reports that support appropriate interpretations and uses and diminish the likelihood of misinterpretations and misuses
- We can turn to the research literature for additional recommendations

5.35 Learning check: Reflection



5.36 Bookend: ITC Guidelines



5.37 Bookmark: Accreditation Standards



5.38 Standards for the Accreditation of Certification Programs (2014)



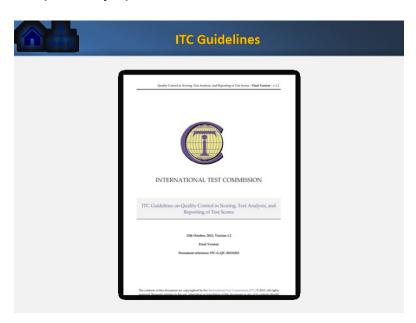
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5.39 ITC Guidelines



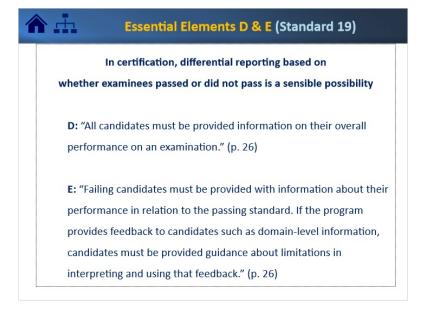
Pdf (Slide Layer)



5.40 Alignment NCCA



5.41 NCCA Standards



5.42 NCCA Standards 19

Commentary on Reporting Responsibilities

"The certification program should provide candidates with an explanation of the types of scores reported, appropriate uses, and potential misuses" (p. 26)

"If domain-level information has low reliability, programs are advised against reporting it to candidates and other stakeholders. When domain-level or other specific feedback is given to candidates, the certification program should provide estimates of its precision and/or other guidance." (p. 26)

5.43 NCCA standards II

Procedural Aspects of Reporting (Standards 9-10) Standard 9: How long to maintain examinees' test results and other certification-related records

 Standard 10: How to adequately protect the confidentiality of examinees' results and related information



5.44 Bookend: Accreditation Standards



5.45 Bookmark:Best Practices for Reporting Results



5.46 Report Design Research



5.47 Generalizability



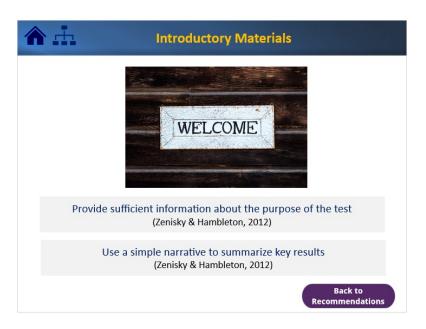
5.48 Recommendations from Literature



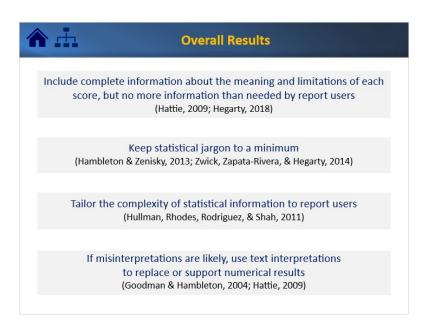
5.49 Topic Selection



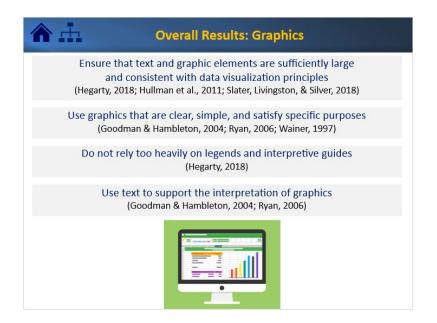
5.50 Introductory Materials



5.51 Overall Results I



5.52 Overall Results: Graphics



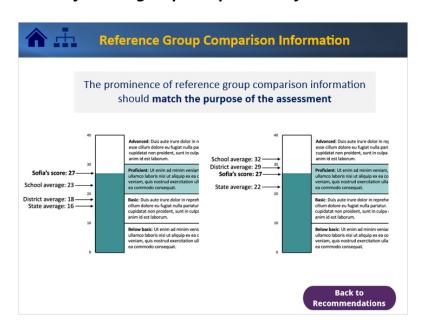
5.53 Overall Results: Caution



5.54 Performance Level



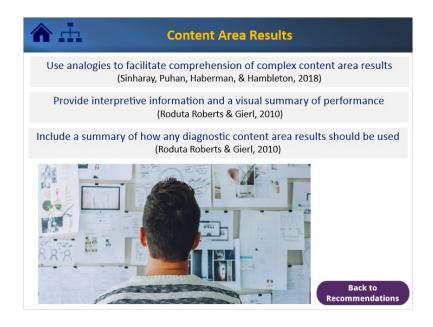
5.55 Reference group comparison information



5.56 Content area results



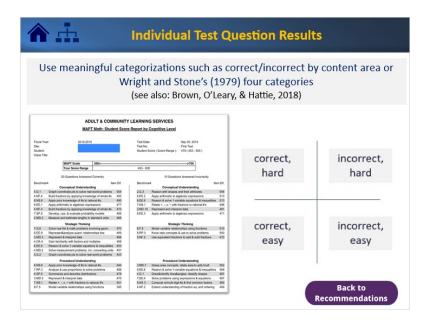
5.57 Content area results II



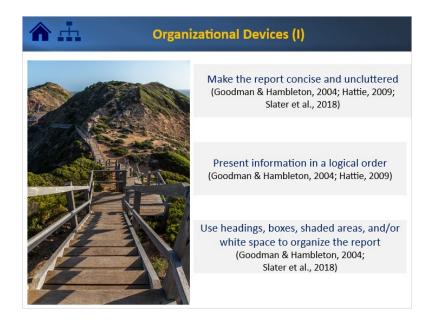
5.58 Growth results



5.59 Individual test question results



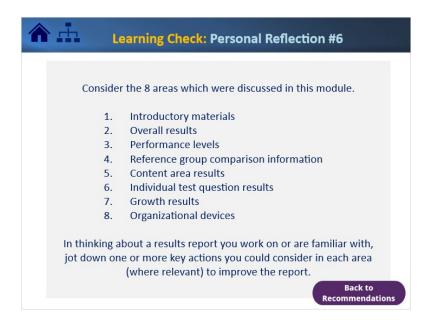
5.60 Organizational devices



5.61 Organizational devices II



5.62 Learning Check: Personal Reflection #6



6. Section 5: Research on Reporting

6.1 Cover: Section 5



6.2 Objectives: Section 5



6.3 Research Questions and Methods



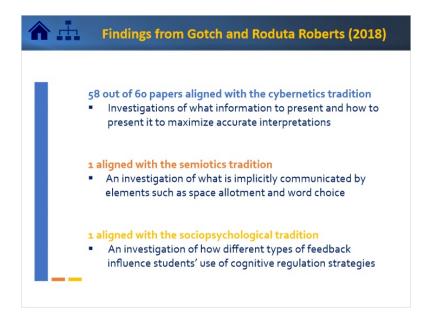
6.4 Areas of focus



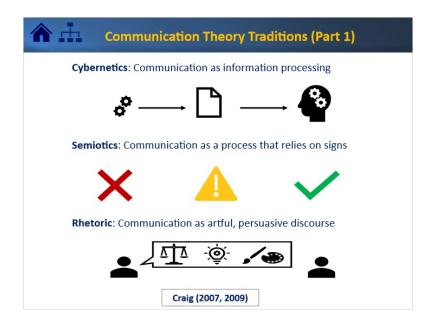
6.5 Areas of focus



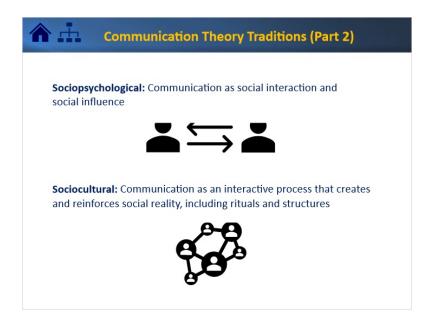
6.6 Findings



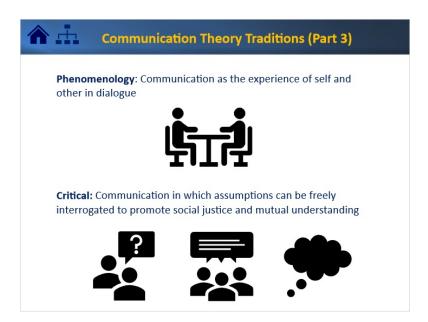
6.7 Communication theory traditions (part 1)



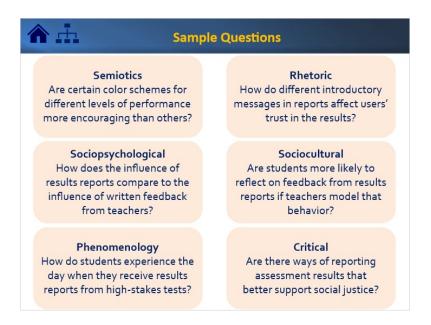
6.8 Communication theory traditions (part 2)



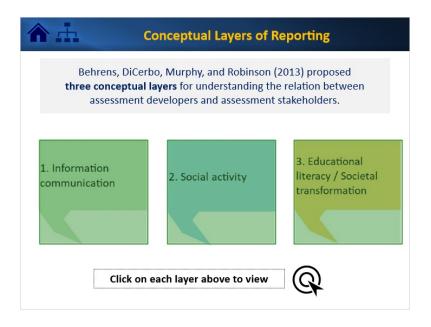
6.9 Communication theory traditions (part 3)



6.10 Conceptual layers of reporting



6.11 Conceptual Layers of Reporting



Information communication (Slide Layer)

Information Communication



Core question:

"What do designers want to communicate?"

Interpretive constraints

Establish what interpretations can be supported by data

Communicative considerations

 Design reports that promote those interpretations, following design recommendations and considering report users' typical literacy and numeracy

Process imperatives

Gather evidence of how the reports function

Educational literacy / Societal transformation (Slide Layer)

Educational literacy / Societal transformation



Core question:

"What is the desired effect in the educational system?"

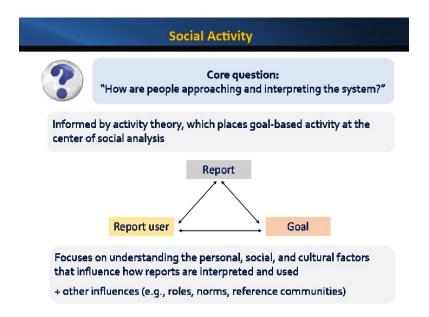
Educational literacy: "The large scale understanding of how learning outcomes are shaped and changed by practices." (p. 18)

Emphasizes the need to articulate the short- and long-term goals of using a particular assessment, at the micro and macro levels

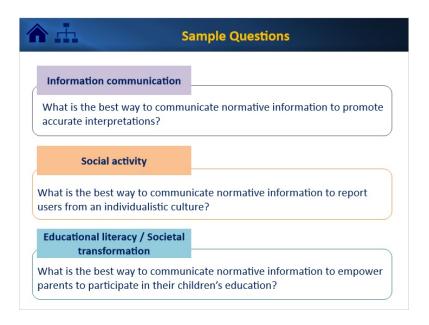
Raises questions about:

- How results reports and related assessment information influence the education system
- How knowledge from assessments interacts with information about instructional standards and practices

Social activity (Slide Layer)



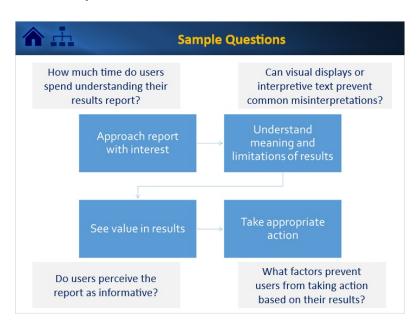
6.12 Sample Questions



6.13 User-Centered Steps to Success



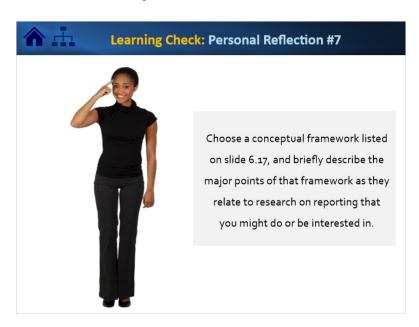
6.14 Sample Questions



6.15 Sample Questions



6.16 Personal Reflection #7



6.17 End of Section 5



6.18 Module Cover (END)

