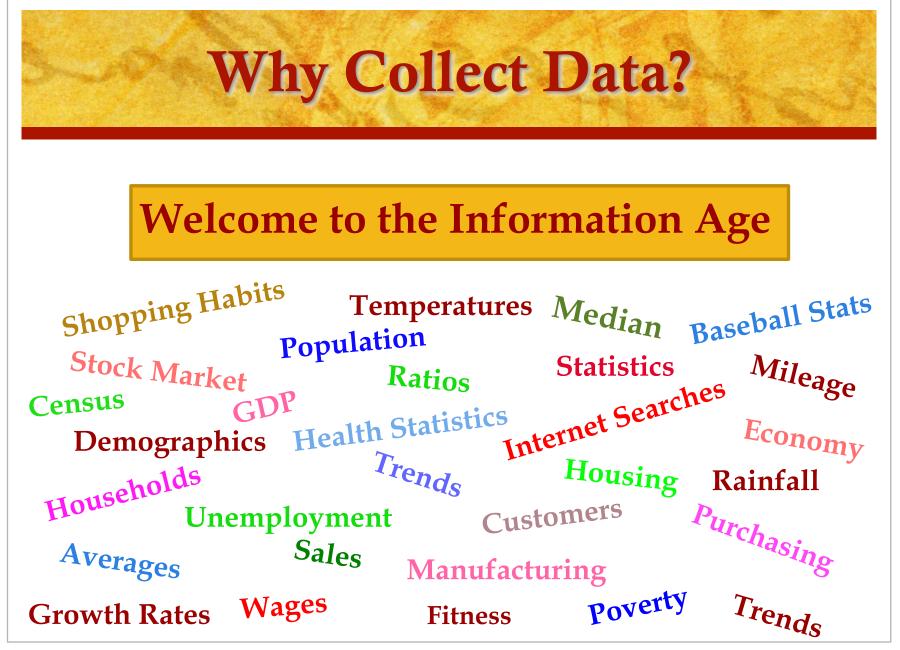
Understanding the Value and Usefulness of Comprehensive Assessment System Components

Association of Alaska School Boards 64th Annual Conference November 10th, 2017 Anchorage, Alaska



"Know where to find information and how to use it. That's the secret of success."

- Albert Einstein

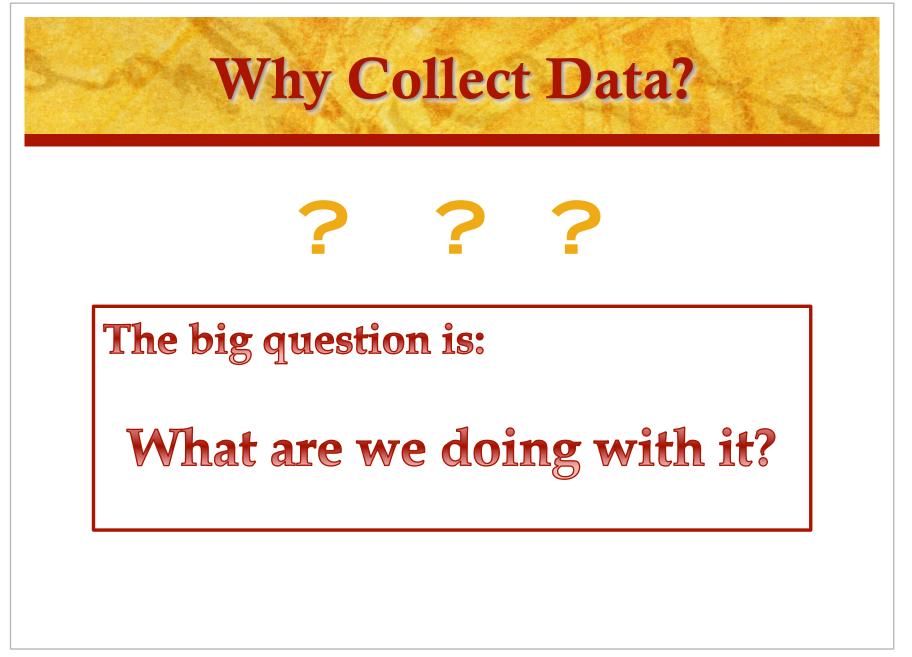




- School-by-School
- District-by-District
- State-by-State

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Education has begun collecting massive amounts of data:

- $\sqrt{\text{Student Performance}}$
- Attendance
- Graduation Rates
- Student Subgroups
- English Learners
- Teacher Qualifications
- School-by-School
- District-by-District
- State-by-State

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Ways We Assess Students' Performance

Asking Questions

Quizzes

Exams

Observation

Benchmark Tests

State Tests

Federally Mandated Tests

Common Alaska Student Assessments

WorkKeysMeasures of Academic Progress - MAPWechsler Intelligence ScaleAIMSwebPerformance Assessment for Alaska Students - PEAKSSTAR 360Alaska Developmental ProfileNational Assessment of Educational Progress - NAEPVineland Adaptive Behavior ScaleWoodcock JohnsonWIDA - ACCESS for EL's

Some questions asked about assessment:

- 1. Are we doing too much?
- 2. Does assessment take away too much time from instruction?
- 3. What are the results used for?
- 4. Who decides what assessments to use, and why?



Two Misunderstood Aspects of Assessments

Standardized Assessments -

The test is given multiple times with all test takers answering the same questions, or from the same bank of questions, and the scoring is applied consistently to all tests taken. This allows comparisons to be made between test takers.

Two Misunderstood Aspects of Assessments

Scaled Scores -

This is a statistical method for converting raw scores into a scale that takes into account the various difficulties of test items answered. So, if one test has slightly easier questions answered, the test taker must answer more questions correctly to get the same score as someone answering harder questions.

Types of Assessment

Normative Assessments Criteria-Based Assessments Program Assessments Performance-Based Assessments Summative Assessments Formative / Interim Assessments Benchmark Assessments Progress Monitoring Assessments Diagnostic Assessments

Types of Assessment

Normative Assessments -

Assessment scores based upon actual performance of groups that have taken the test. Good norm studies include hundreds of thousands of test administrations with a wide net of racial, gender, age, and demographic groups. Results are often shown as percentiles, or this is where you stand when compared to the normed group. At 75th percentile, you are 75th out of 100.

Types of Assessment

Criteria-Based Assessments -

Assessments based on set of skills and knowledge. Students get X number right and X number wrong. Results can be a percentage of right and wrong, but standardized tests often use scaled scores to account for slight differences in the tests. Scaled scores allow comparisons to be made between test takers.

Types of Assessment

Program Assessments -

The most common assessment. These are tests usually created by the curriculum publisher, or by a teacher, and are used to measure whether or not the students learned what was taught. These are always criteria-based, but can be scored in a variety of ways, i.e. % right or wrong; use of rubrics; observations; presentations; task performance; selfevaluation. The results of these tests at the classroom level are used to assign grades to a student for the class.

Types of Assessment

Performance-Based Assessments -

This is still a criteria-based assessment, but much more involved than a normal program assessment. These assessments are usually associated with a long-term unit or class project where individuals or groups of students have to perform an activity or produce a product that demonstrates mastery of skills and knowledge associated with the unit. These assessments are normally scored based on a lengthy rubric.

Types of Assessment

Summative Assessments -

Assessments that evaluate student learning at the end of a defined instructional period, typically at the end of a unit, project, or academic period (end of semester), covering most skills and knowledge taught during this period. These assessments usually have high stakes, or a high point value.

Types of Assessment

Formative / Interim Assessments -

Assessments given during an instructional period in order to evaluate student learning and progress. Data from these assessments inform teachers as to the effectiveness of instruction and allow for in-process adjustments to instruction and activities to enhance student learning.

Types of Assessment

Benchmark Assessments -

The fundamental purpose of these assessments is to provide information to guide instruction. These assessments are also called screening assessments in that they test all students at grade level in order to determine students' grade level abilities. This data can then be used to determine what instruction is best suited for different groups or for individual students.

Types of Assessment

Progress Monitoring Assessments -

These assessments are used to monitor student progress on a particular skill and to evaluate the effectiveness of instruction on that particular skill. In order to evaluate instruction, these tests are given at students' instructional level. They are normally associated with some sort of intervention deemed necessary based upon the results of benchmark, or screening, assessments.

Types of Assessment

Diagnostic Assessments -

Assessments given to determine particular concepts or skills that a student has, or does not have, in order to target instruction at the proper instructional level. These assessments are often given to diagnose very particular difficulties in order to design effective instruction.

Common Assessments

PEAKS NAEP MAP STAR 360

Alaska Developmental Profile

Woodcock Johnson

WIDA - ACCESS for EL's

AIMSweb

Types of Assessment

Normative Assessments

Criteria-Based Assessments

Summative Assessments

Formative Assessments

Benchmark Assessments

Performance-Based Assessments

Common Alaska Student Assessments

- **PEAKS** Criteria-Based; Summative
- **NAEP** Criteria-Based; Summative
- MAP Normative; Benchmark

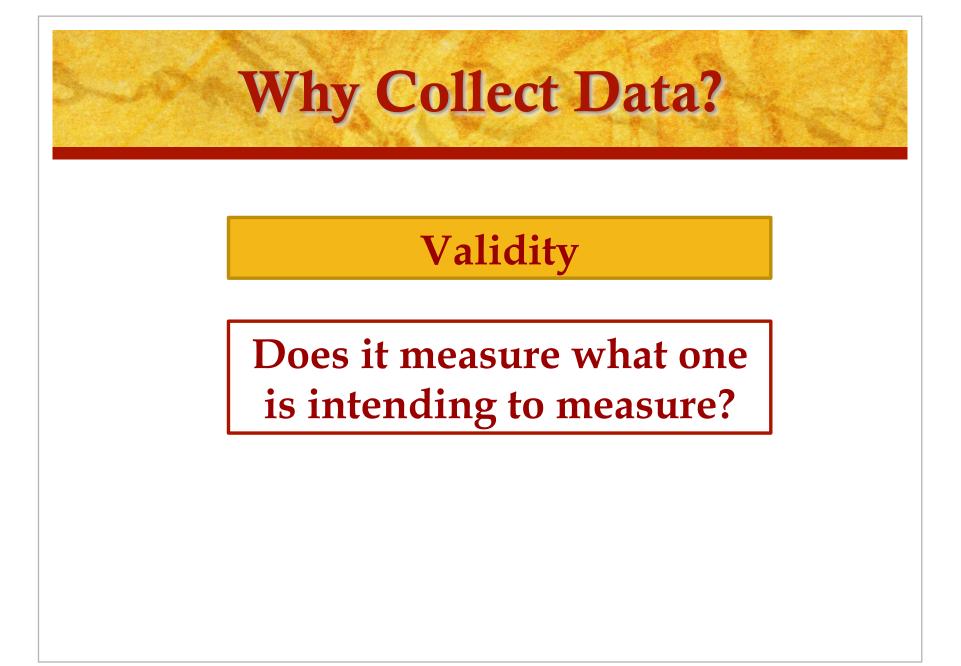
STAR 360 - Normative; Formative; Progress Monitoring; Diagnostic Kindergarten Developmental Profile - Criteria-Based; Performance-Based Woodcock Johnson - Criteria-Based; Performance-Based; Diagnostic WIDA - ACCESS for EL's - Criteria-Based; Performance-Based

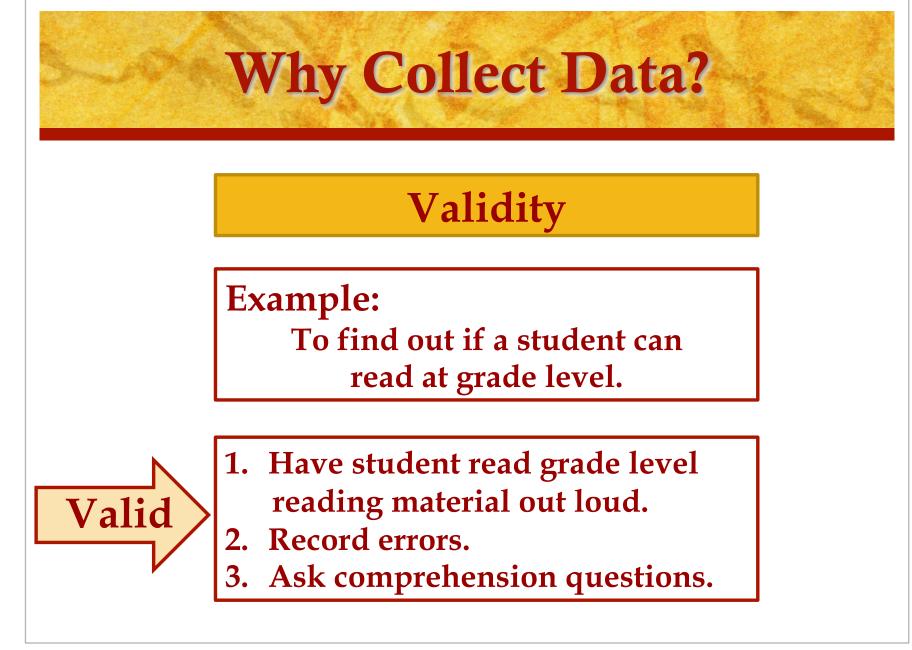
AIMSweb - Normative; Benchmark; Progress Monitoring

Important Assessment Questions:

Is it valid?
Is it reliable?
Is it fair?









Validity

Example: To find out if a student can read at grade level.



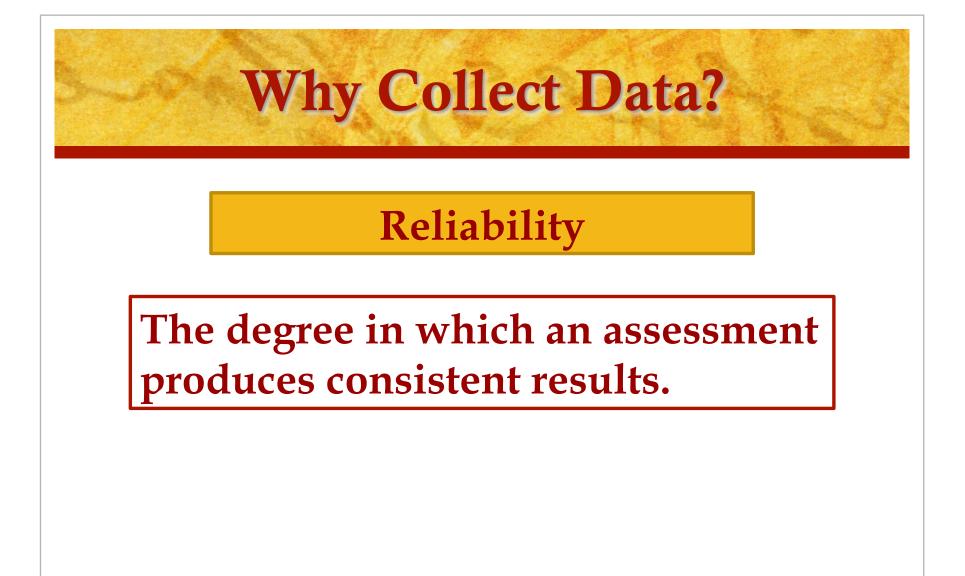
1. Have student fill in the blanks in a grade level reading passage from a selection of three choices for each blank.

Validity

1. Have student fill in the blanks in a grade level reading passage from a selection of three choices for each blank.

Sample:

When John's family goes to the (tree, beach, fireworks), they enjoy building (sand, dirt, wooden) castles.



Reliability

Measuring Reliability:

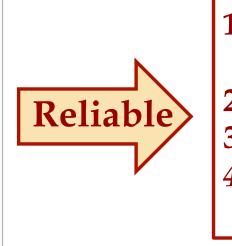
- 1. Give the test multiple times to similar groups of students.
- 2. Compare results.
- 3. Establish a Standard Error of

Measurement.

Reliability

Example:

To find out if a student can read at grade level.



- 1. Have student read grade level reading material out loud.
- 2. Record errors.
- 3. Ask comprehension questions.
- 4. Compare scores to typical grade level performance from a reliable scale.

Reliability

Example:

To find out if a student can read at grade level.



1. Have student fill in the blanks in a grade level reading passage from a selection of three choices for each blank.

Reliability

1. Have student fill in the blanks in a grade level reading passage from a selection of three choices for each blank.

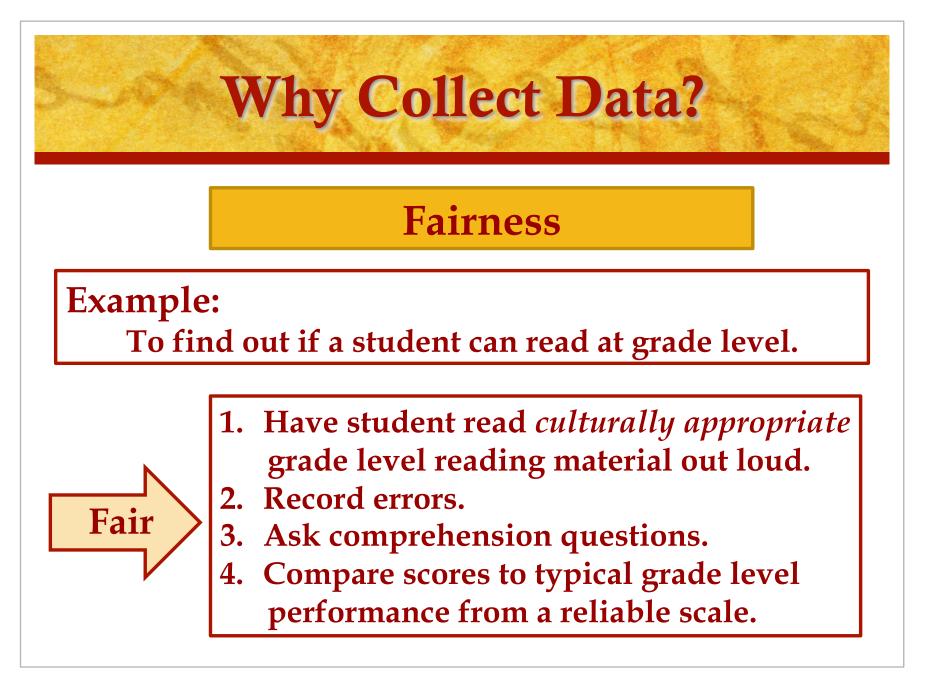
Sample:

When John's family goes to the (tree, beach, fireworks), they enjoy building (sand, dirt, wooden) castles.



Fairness

Fairness refers to freedom from bias. The test should be appropriate regardless of race, religion, gender, or age. There should be no disadvantage other than lack of knowledge and skills being measured.



Fairness



1. Have student fill in the blanks in a grade level reading passage from a selection of three choices for each blank.

Sample:

When John's family goes to the (tree, beach, fireworks), they enjoy building (sand, dirt, wooden) castles.

Important Assessment Questions:

- 1. Is it valid?
- 2. Is it reliable?
- 3. Is it fair?
- 4. Does it have value?

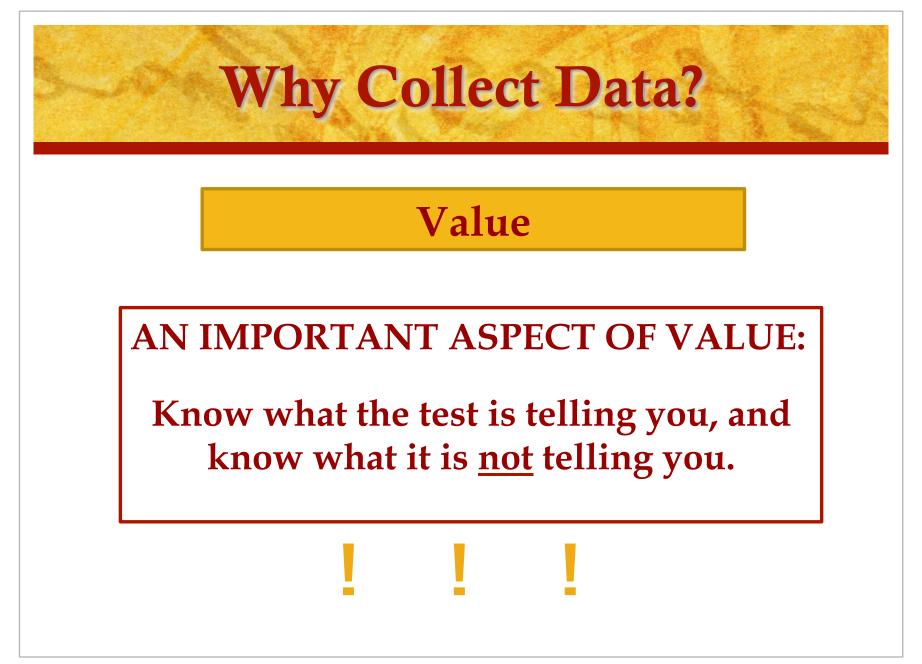


Value

Collecting information is not the goal.

Knowing the value of the information is important to understanding why.

The actions taken as a result of the data collection is the goal and purpose.



Value

ANOTHER IMPORTANT ASPECT OF VALUE:

If the data from an assessment is not used by someone to inform and improve the education of students, then stop doing it!



Value at the District Level

Use data to:

- Improve curriculum choices
- Improve teacher training
- Create achievable goals
- Inform strategic planning
- Inform budgeting
- Inform policy-making

Value at the School Level

Use data to:

- Inform school improvement planning
- Inform in collaborative meetings
- Improve observations and feedback
- Determine interventions for students
- Maximize efficiencies in scheduling
- Target training in curriculum implementation and teaching practices
- Involve the community in sharing data

Why Collect Data? Value at the Classroom Level Use data to: Change instructional emphasis and practices • Make changes in instructional time Select appropriate interventions Group students for efficiencies Pinpoint deficiencies with diagnostic tests Progress monitor intervention effectiveness Collaborate with others to share ideas and strategies

Communicate student successes, needs to parents

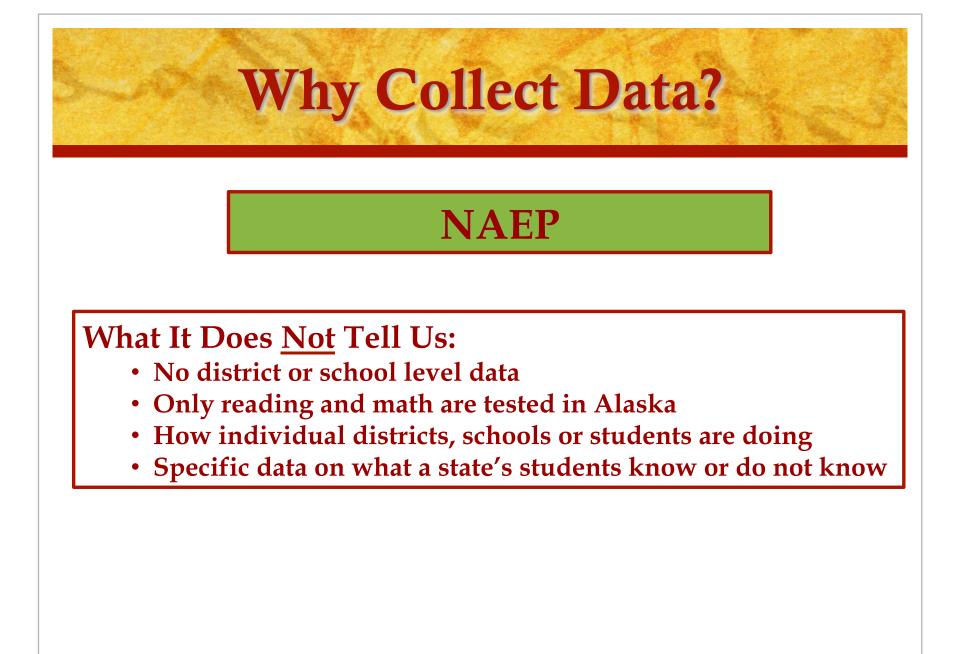
National Assessment of Educational Progress (NAEP)

Test in reading, math, science, and writing given to select 4th and 8th grade students across the U.S. every other year. Carefully administered testing increases its validity and reliability. Alaska tests only reading and math.

NAEP

What It Tells Us:

- One of the most respected assessments in the U.S.
- Known as the "Nation's Report Card"
- Used to evaluate state-by-state student performance
- Provides demographic data on subgroups
- Helps measure assessment rigor between states



Performance Evaluation for Alaska's Schools (PEAKS)

Summative statewide assessment on the Alaska State Standards for English language arts (ELA), math, and science designed by Data Recognition Corporation (DRC). Administered once a year and mandated by the Every Student Succeeds Act (ESSA).

PEAKS

What It Tells Us:

- Informs educators and the public on performance of schools on state standards
- Statewide, district, and local data on student learning
- Provides information to parents
- Assesses ELA and math for grades 3 10
- Assesses science in grades 4, 8, and 10
- Provides districts an overview of school and student performance that can guide decisions on curriculum, instruction, and professional development
- Used to designate schools for extra support
- Students are given one of four Achievement Levels

PEAKS

What It Does <u>Not</u> Tell Us:

- Writing was not assessed in 2017. It will be added in 2018.
- Detailed information on school, classroom, or student performance on each standard
- Detailed information to change classroom instructional practices
- Information on why students are struggling
- Interim progress on student learning

AIMSweb & AIMSwebPLUS

An assessment tool produced by Pearson that measures student skills in reading and math against grade level targets. Results group students in tiers of performance. This tool includes benchmarking and progress monitoring tools and can be done with paper and pencil.

AIMSweb

What It Tells Us:

- District, school, classroom, and student level data
- Measures primary grades reading and math "indicators" of grade level performance by 3rd grade
- Measures reading rate and accuracy and compares to national norms at grade levels
- Measures math computation and conceptual skills
- Provides benchmarking data up to three times per year to screen students for possible interventions
- Provides progress monitoring to frequently measure the effectiveness of instruction

AIMSweb

What It Does <u>Not</u> Tell Us:

- Primary "indicators" of performance do not always predict future performance
- The most common reading indicators are Rate and Accuracy, which does not necessarily correlate to reading comprehension
- Diagnostic information on why students are struggling
- Valid and reliable data beyond 8th grade

Measures of Academic Progress (MAP)

An assessment product of the Northwest Education Association (NWEA) that uses tests in reading, math, language usage, and science to evaluate student performance against national norms. MAP has a Learning Continuum that lists skills students have learned to achieve levels of performance.

MAP

What It Tells Us:

- District, school, classroom, and student level data
- Scale scores (RIT units) on performance that correlate to an extensive, up-to-date norms study
- Grade level performance, based on norms
- Typical (normed) student targets for growth
- Reading comprehension based on reading passages and answering comprehension questions
- Math computations and concepts
- Language editing skills
- Lists of skills tested and recommendations for instruction

MAP

What It Does <u>Not</u> Tell Us:

- Grade level performance
- RIT scores do not correlate well to other test data
- Does not test writing skills, just editing skills
- Skills tested are the Learning Continuum skills, not necessarily the same as state standards or the skills taught in the adopted curriculum
- Margin of error in 8th through 12th grades is higher than the typical projected growth
- No progress monitoring

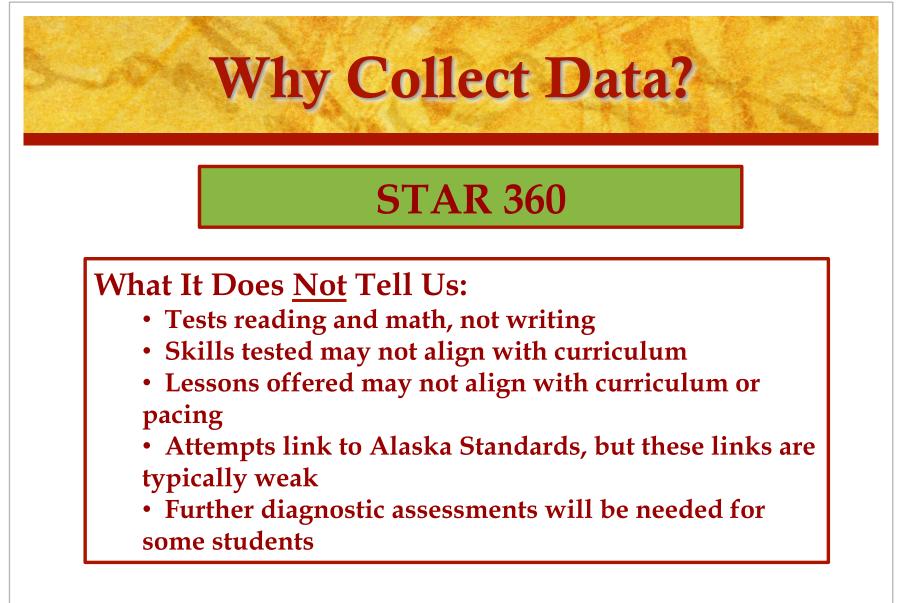
Renaissance STAR 360

An upgraded version of the STAR assessment by Renaissance Learning that is much more comprehensive than the previous versions. Benchmark and progress monitoring tests for reading, math, and early literacy provide detailed skill information and percentile rankings for students. Takes less than 20 minutes to administer.

STAR 360

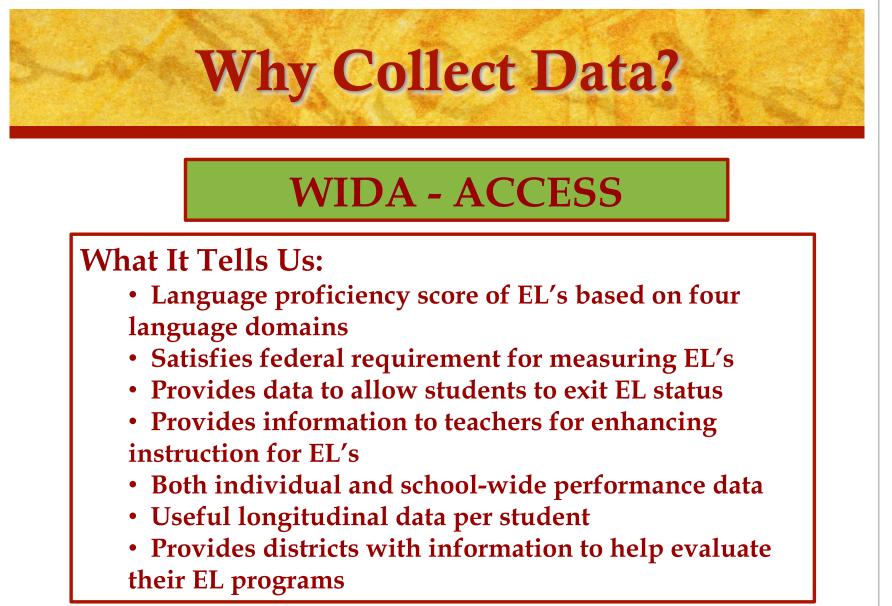
What It Tells Us:

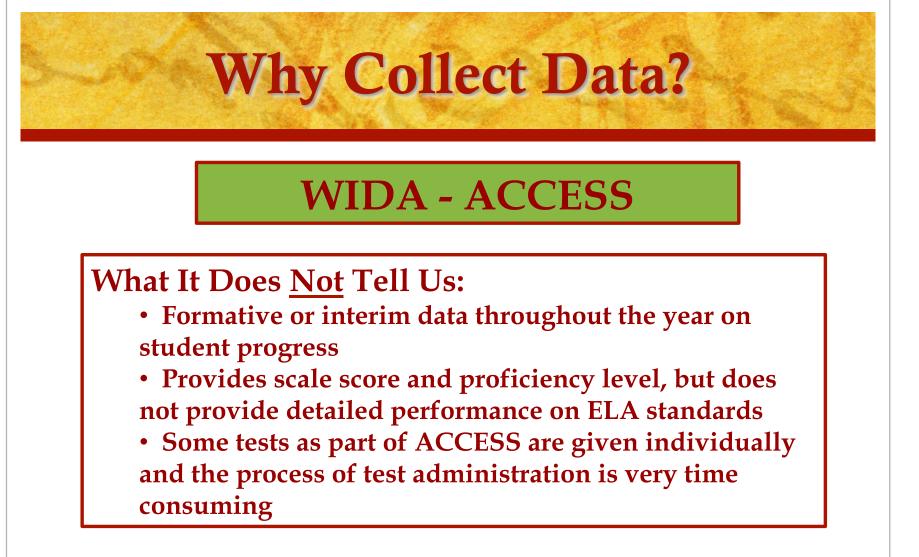
- District, school, classroom, and student level data
- Comprehensive tool with formative, progress monitoring, and some diagnostic assessments
- Compares results to national norms and predicts growth rates (Student Growth Percentile)
- Provides detailed lists of skills learned, skills needing work, and next steps
- Provides links to lessons that teach identified skills
- Customizable for individual student assessment and skill development



WIDA – ACCESS for ELLs 2.0

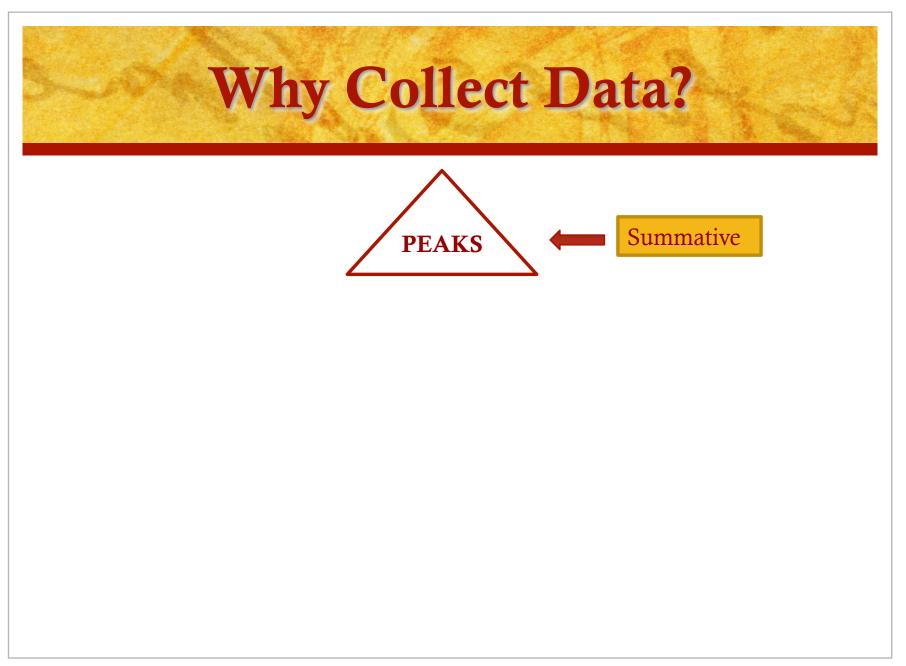
Assessment developed by the WIDA consortium and chosen by Alaska to meet federal requirements for testing English Learners (EL's). Assesses each of the four language domains: Reading; Writing; Listening; Speaking. Only given to students that are designated English Learners once per year.

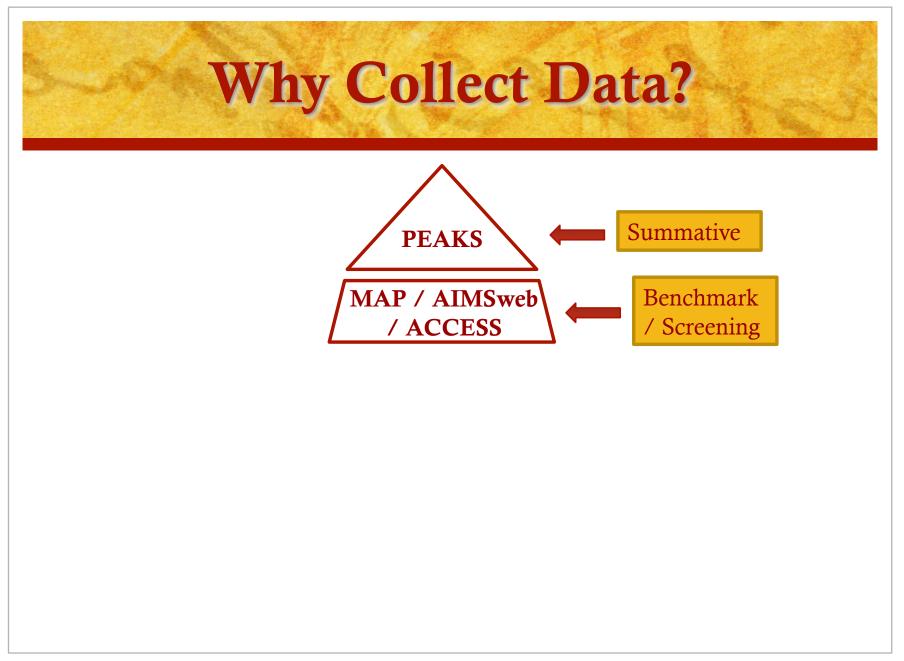


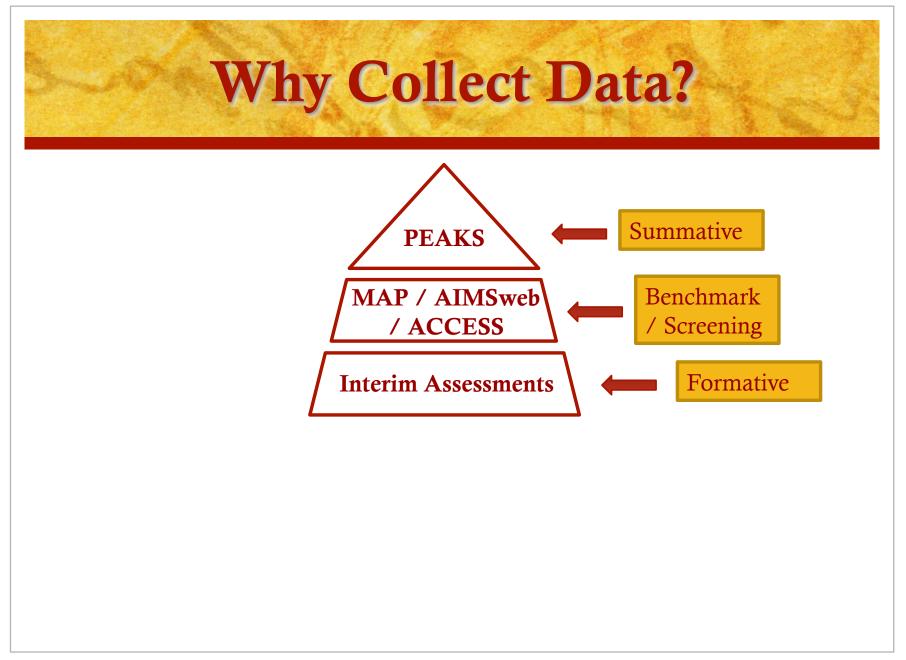


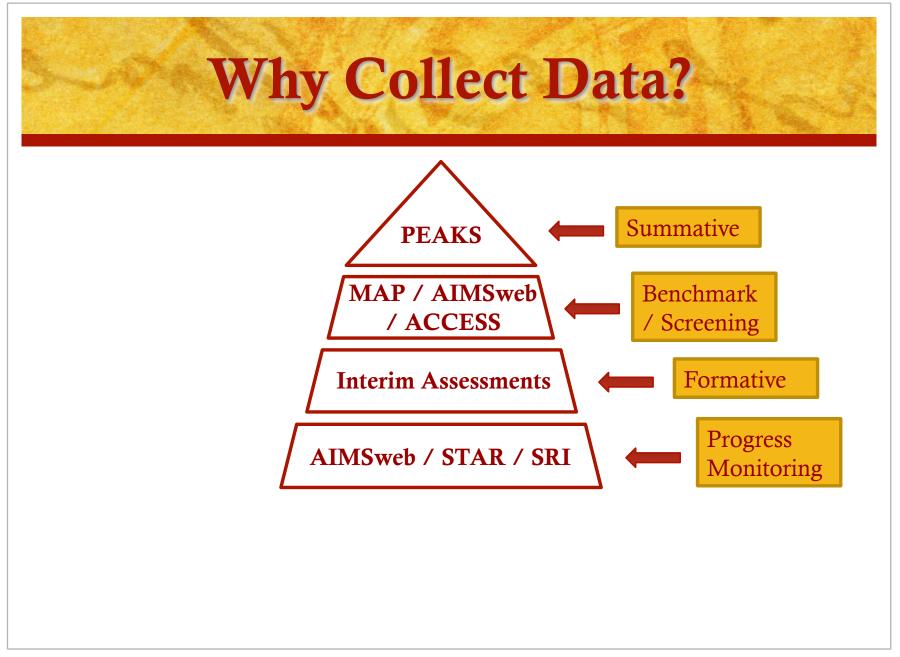
Types of Assessment

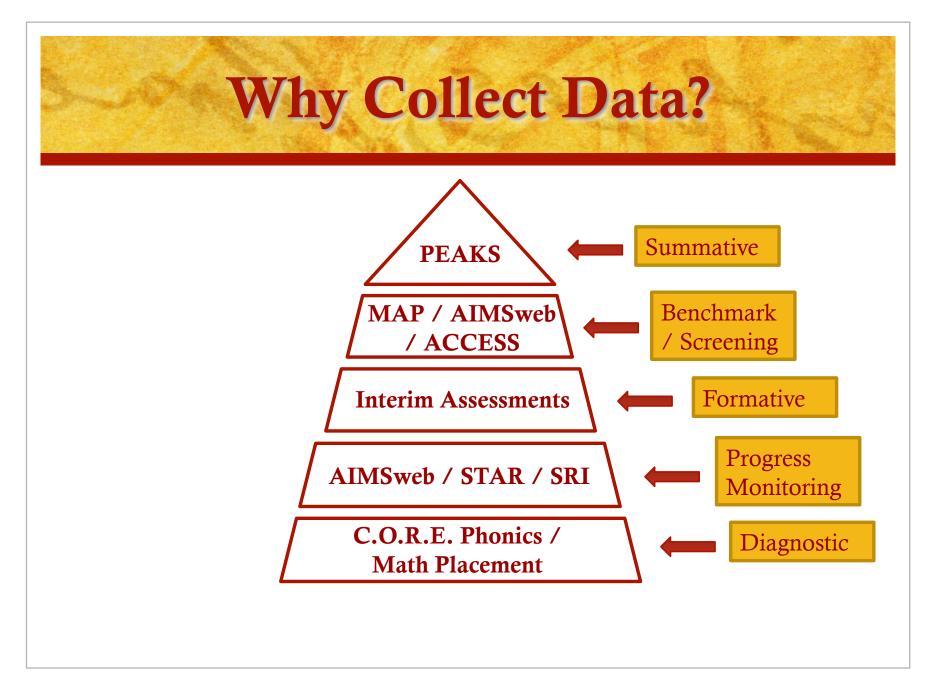
Normative Assessments Criteria-Based Assessments Performance-Based Assessments Progress Monitoring Assessments Summative Assessments Formative Assessments Diagnostic Assessments Interim Assessments Program Assessments

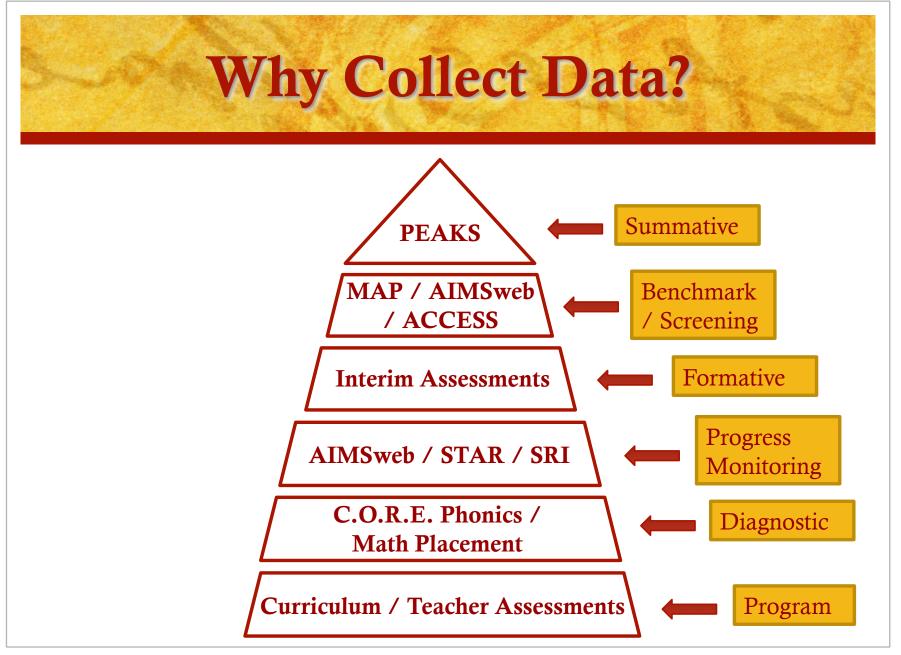


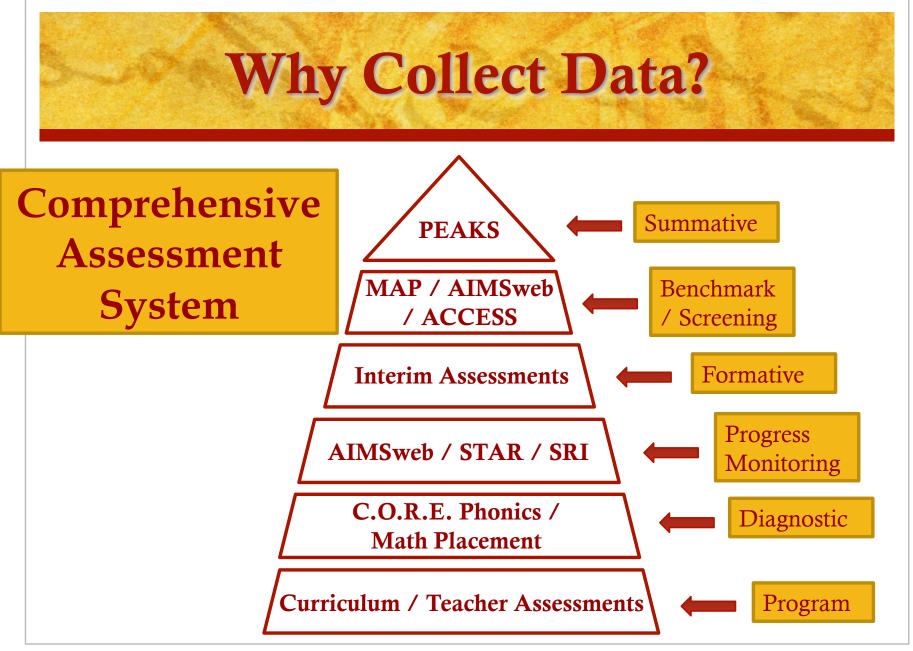








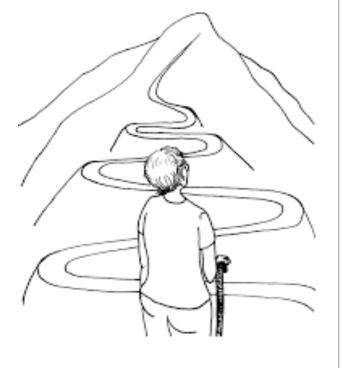




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<u>A Way Forward With</u> <u>Assessments</u>

Understand what the needs are.



<u>A Way Forward With</u> Assessments

Create a Comprehensive Assessment System.



<u>A Way Forward With</u> Assessments

Ensure assessments have value.



<u>A Way Forward With</u> Assessments

Use collaboration to determine actions to be taken as a result of the data.



<u>A Way Forward With</u> Assessments

Continually review all aspects of the assessment system and make changes as the needs arise.



Powerpoint Prepared by:

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