



## Arizona's Assessments



- **AIMS HS** (Standards based)
  - Grades 10, 11, 12
- **AIMS 3-8** (Standards based)
  - Grades 3 through 8
- **Stanford 10** (Norm-referenced)
  - Grades 2 and 9 (stand-alone test)
  - Grades 3 through 8 (embedded in AIMS 3-8)
- **AIMS A** (Standards based)
  - Grades 3 through 8, and 10
  - For students with significant cognitive disabilities

## Arizona's Assessments



- **Arizona's Instrument to Measure Standards (AIMS)**
  - Standards Based Assessment
  - Developed by Arizona teachers
  - Owned by Arizona
  - Measures student proficiency of the Arizona Academic Content Standards in:
    - Writing
    - Reading
    - Mathematics
    - Science
  - Required by state and federal law

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## AIMS History 1999 - 2007



- **Spring 1999 – 1<sup>st</sup> admin. of HS**
  - Reading, Writing, & Mathematics
  - 1996 AZ Academic Standards
- **Spring 2000 – 1<sup>st</sup> Grades 3, 5, & 8**
  - Reading, Writing, and Mathematics
  - 1996 AZ Academic Standards
- **Fall 2004 – 1<sup>st</sup> Fall HS admin.**
- **Spring 2005 – All Grades 3-8 & HS**
  - Reading, Writing, and Mathematics
  - 2003 AZ Math & Reading Standards
  - 2004 AZ Writing Standard

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## AIMS History 2008 - 2011



- **Spring 2008 –1<sup>st</sup> Grades 4, 8, & HS**
  - Science
  - 2005 AZ Science Standard
- **Spring 2010– All Grades 3-8 & HS**
  - Mathematics
  - Change to new NAEP aligned 2008 AZ Mathematics Standard
- **Spring 2011 – Grades 5, 6, 7 & HS**
  - Writing
  - Added multiple choice items to writing prompt

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## Graduation Requirement



- **Graduation Requirement:**
  - Must Pass:
    - Mathematics
    - Reading
    - Writing
  - Students with an IEP exempt
  - Can use grades to partially augment scores
- **Students are not required to pass Science.**

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## AIMS HS



### Writing, Reading, Mathematics

- **Administered in the spring**
  - All 10<sup>th</sup> graders (based on cohort)
- **Administered in the fall and spring**
  - All 11<sup>th</sup> and 12<sup>th</sup> graders who have not yet met the standard
  - 11<sup>th</sup> and 12<sup>th</sup> graders who have met the standard, but not yet exceeded, may retake to improve score
- **Science is only administered in the spring since it is not tied to graduation.**

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## AIMS Scaling



- **IRT Models for AIMS and AIMS A scales:**
  - Rasch and/or Partial Credit Model
  - Scale scores reported only at the Test Level
  - Raw scores and percent correct reported at the Strand and Concept Levels

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## AIMS Reading & Writing



- **Reading – Grades 3 - 8, & HS**
  - Multiple choice
  - 3 - 8 vertically scaled (200 – 800)
  - HS independently scaled (500 – 900)
- **Writing – Grades 5, 6, 7, & HS**
  - One extended writing prompt
  - Multiple choice
  - All independently scaled (300 – 700)

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## Reading (2003 Standard)



- **Reading Process**
  - Grade 3: Print Concepts, Phonics, Vocabulary, & Comprehension
  - Grades 4- HS: Vocabulary & Comprehension
- **Comprehending Literary Text**
  - All Grades: Elements of Literature
  - Grades 7- HS: Historical and Cultural Aspects of Literature
- **Comprehending Informational Text**
  - All Grades: Expository, Functional, and Persuasive Text

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## AIMS Mathematics & Science



- **Mathematics – Grades 3 - 8, & HS**
  - Multiple choice
  - 3 - 8 vertically scaled (100 – 640)
  - HS independently scaled (300 – 700)
- **Science – Grades 4, 8, & HS**
  - Multiple choice
  - All independently scaled (300 – 700)

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## Mathematics (2008 Standard)



- **Numbers & Operations**
  - Number Sense, Numerical Operations, & Estimation
- **Data Analysis, Probability, & Discrete Math**
  - Data Analysis, Probability, Systematic Listing & Counting, & Vertex-Edge Graphs
- **Patterns, Algebra, & Functions**
  - Patterns, Functions & Relationships, Algebraic Representations, & Analysis of Change
- **Geometry & Measurement**
  - Geometric Properties, Transformation of Shapes, Coordinate Geometry, & Measurement
- **Structure & Logic**
  - Algorithms & Algorithmic Thinking & Logic, Reasoning, Problem Solving & Proof

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## Accommodations



- **Approved categories:**
  - **Universal**
  - **Standard** - Captured on Test Demographic Sheet
- **Universal** are available for all students.
  - Small group or one-on-one testing
  - Using devices that allow the student to see the test
    - glasses, special lighting, color overlays, ...
  - Use of special furniture
  - Wearing noise buffers

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## Standard Accommodations



- **Students with an injury**
  - MC responses scribed or transferred to answer document
  - Use of assistive technology for writing without spell or grammar check or predict ahead
- **ELL or FEP Students**
  - More breaks
  - Simplified directions in English
  - Exact oral translation of scripted directions
  - Read aloud in English – Not Reading
  - Word-for-word translation dictionary

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## Standard Accommodations



- **Students with a disability**
  - All of the accommodations as needed for injured and ELL students
  - Place marker use
  - Personal whiteboard
  - Test at a different time of day
  - Large print
  - For a student who is blind
    - Braille edition and Braille writers
    - Electronic dictionary & thesaurus without spell or grammar check or predict ahead
    - Abacus

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## Special Education Categories



SLD	Specific Learning Disability
VI	Visual Impairment
MIID	Mild Intellectual Disability
MOID	Moderate Intellectual Disability
SID	Severe Intellectual Disability
MD	Multiple Disabilities
MDSSI	Multiple Disabilities with Severe Sensory Impairment
SLI	Speech and/or Language Impairment
ED	Emotional Disability
OHI	Other Health Impairment
DD	Developmental Delay
A	Autism
OI	Other impairment
TBI	Traumatic Brain Injury
HI	Hearing Impairment

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## Other Demographics Collected



- **Standard Federally required data**
  - Social Economic Status (currently using Free/Reduced Lunch designation)
  - Ethnicity
  - Migrant
  - English Language Learner status
- **Minimum sub-group size for:**
  - Performance standing - 11
  - AYP - 40

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## Arizona's Assessments



- **Arizona's Instrument to Measure Standards Alternative (AIMS A)**
  - For students with a significant cognitive disability
  - Based on the Alternate Academic Standards
  - Administered online each spring

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## AIMS A



- **All grades scaled independently**
  - (1000 – 1500)
- **Reading – Grades 3 - 8, & HS**
  - Multiple choice
  - Performance tasks
- **Mathematics – Grades 3 - 8, & HS**
  - Multiple choice
  - Performance tasks
- **Science – Grades 4, 8, & HS**
  - Multiple choice
  - Performance tasks

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## Arizona's NRTs



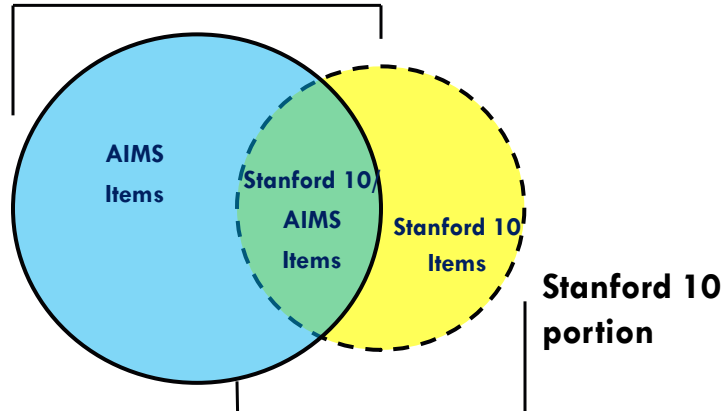
- **Stanford 10 (since 2010)**
  - Terra-Nova (2005-2009)
  - Developed & owned by vendor
  - Student national percentile rank
  - Reading, Language, & Mathematics
  - Required by state law
  - Stand alone for Grades 2 and 9
  - Since 2005, for Grades 3 through 8 embedded into AIMS Mathematics and Reading

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# NRT Embedded in AIMS 3-8 Reading and Mathematics



**AIMS portion**



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