Measuring Oral Reading Fluency:
Computerized Oral Reading Evaluation - CORE

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CORE

• Develop and validate a new computerized assessment system of ORF.
• Automated scoring algorithm based on a speech recognition engine.
• A latent variable psychometric model.
• Vertically scaled scores for Grades 2-4.
• Technically adequate for improving reading outcomes for students across reading proficiency levels.
CORE

• Years 1-2
  • Develop and Validate Passages
    • +110 passages (word counts: ≈25, ≈50, ≈85)
    • Example: “Tim grew very tall. When he was ten everyone thought he’d play basketball. But Tim surprised them all. He loved to play the piano.”
  • Compare
    • wcpcm: easyCBM vs. CORE
    • Hand score live vs. CORE vs. hand score of recording
  • Development of the psychometric model.
CORE

• Year 3
  • Passage parameters horizontally equated and vertically linked.
    • 1,000 students per Grade 2-4
    • Administered with easyCBM benchmarks (fall, winter, spring)

• Year 4
  • Consequential Validity
    • 1,000 students per Grade 2-4
    • 9 assessments across the year (including easyCBM benchmarks)
  • Growth study
    • Trajectory of student growth, CORE and easyCBM
    • Reliability of points and growth

• Teacher feedback