



Visagraph®

SILENT READING ASSESSMENT

Essential
Component
of an Effective **RtI**

Why Are Some Students Struggling Readers?

Reading is a complex process that involves close interaction among visual, perceptual, and cognitive functions.

Inefficient visual skills and perceptual inaccuracies will result in most mental efforts being consumed by text processing, rather than meaning construction.

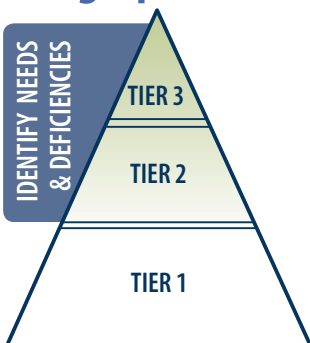
Silent Reading Assessment

The National Reading Panel Report (2000) documents the relationship of eye-movement recording to fluency in silent reading. The report states, "Research on the eye in the past two decades has provided a perspective from which to observe the fluent reading process."

The Visagraph® is the result of more than 75 years of foundational studies in conjunction with leading reading research. Data collected with the Visagraph® provides teachers with unique insight into each student's silent reading behavior, revealing what may be hindering independent reading development. Designed to identify visual, perceptual, and information processing difficulties for struggling Tier 2 and 3 students, the Visagraph® provides an objective means of recording and evaluating silent reading efficiency. In minutes, a detailed analysis of an individual's reading performance is generated.



Visagraph® Assesses the "Unseen & Unheard" Skills of Lower-Tier Students



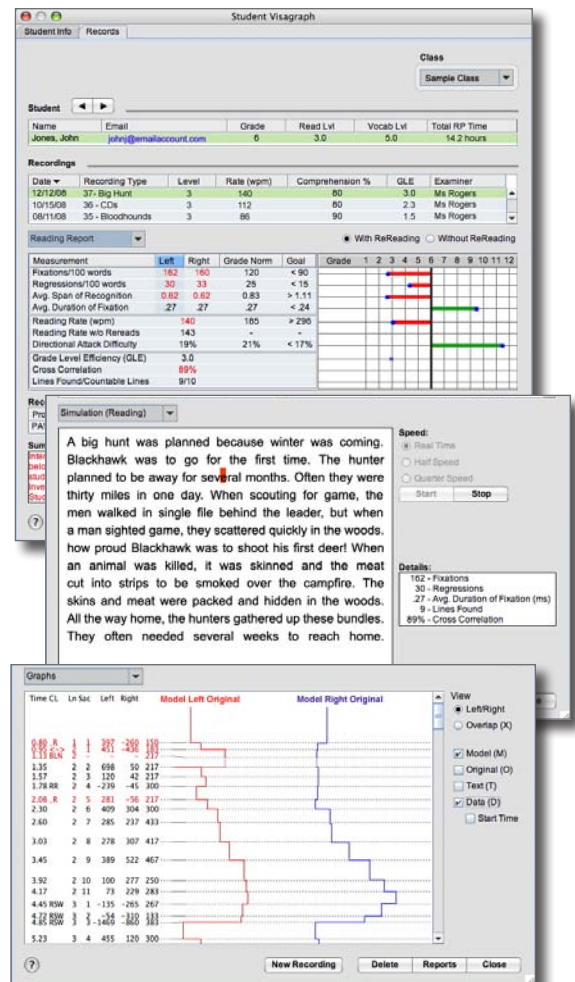
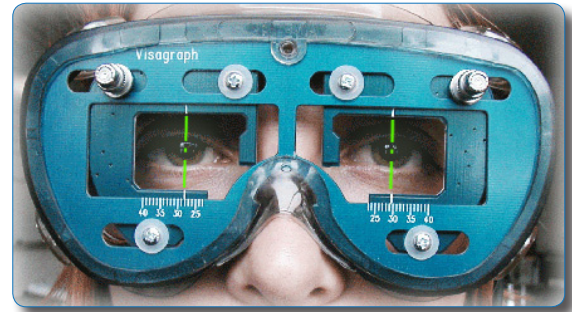
- ▶ Detects visual, perceptual, and information processing deficiencies that hinder reading development
- ▶ Helps identify instructional modifications of Reading Plus® remediation system
- ▶ Motivates students by providing visual representations of "how" they read
- ▶ Tracks students' interim progress and overall achievement of reading goals within Reading Plus®

How Is Visagraph® Assessment Conducted?

To start, Visagraph® goggles are placed over a student's eyes and adjusted to align appropriately with his or her pupils. Then, while wearing the goggles, the student reads a short text selection from a test booklet and answers ten comprehension questions related to the story. The Visagraph® automatically generates a simulation of the student's eye movements over the text, as well as multiple reports and data regarding:

- ▶ **Binocular coordination**, ocular motility, accuracy in tracking, and other differences in the performance of the two eyes (visual-functional competence)
- ▶ **Letter order awareness**, word recognition capability, and visual memory as reflected in the number of fixations (eye stops), regressions (reverse eye stops), and average duration of fixation (perceptual accuracy)
- ▶ **Rate and sequence** of word input into short-term memory, as well as the amount of rereading (information processing efficiency)

For non-readers, a numbers tracking test and a visual skills test can be administered to determine adequacy of visual/functional skills.



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