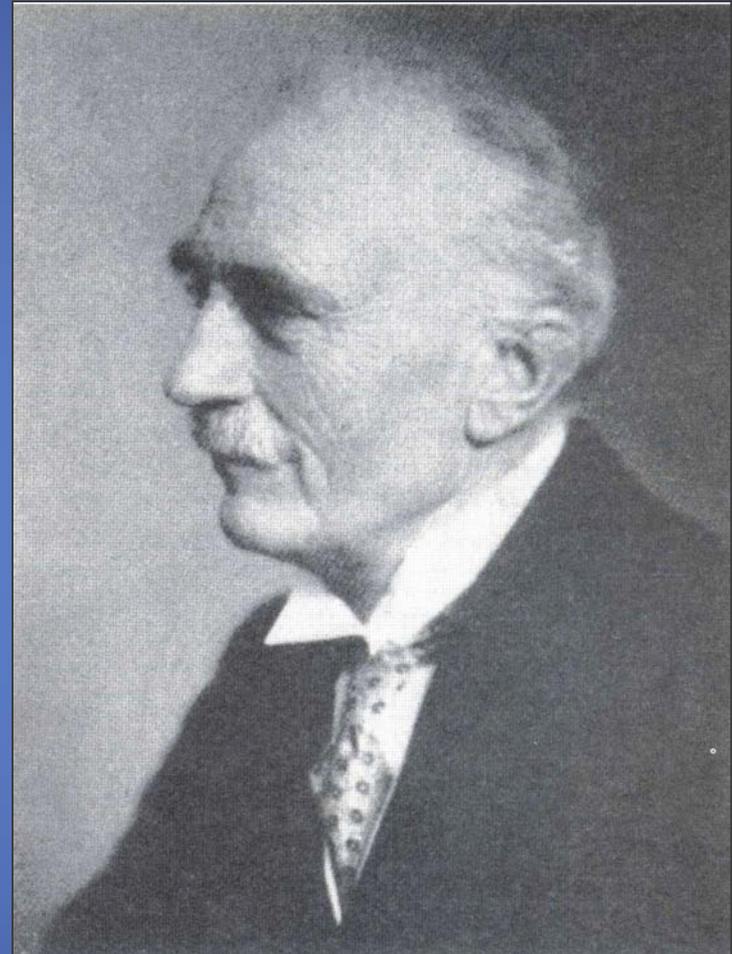


Dyslexia In Texas



1895 - 1896

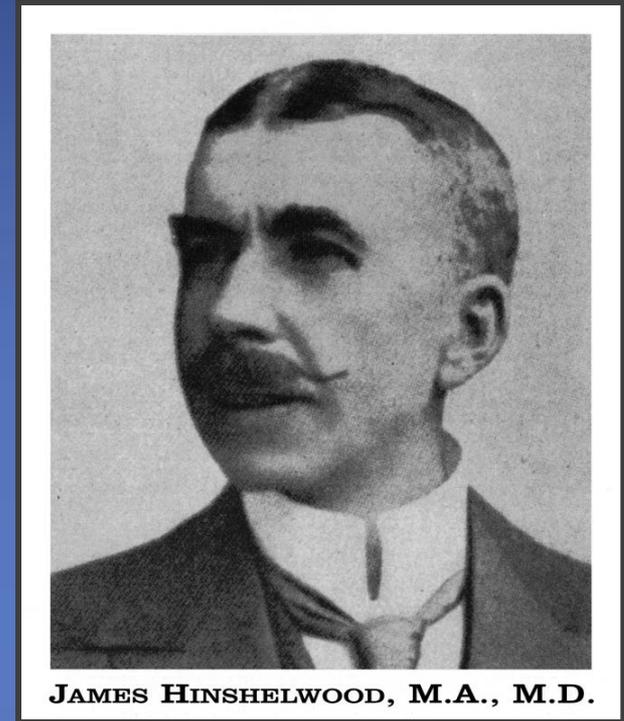
2 British Physicians –
W. Pringle Morgan
and James
Hinshelwood both
wrote about
*“congenital word
blindness”*



W. PRINGLE MORGAN, M.B.

1917

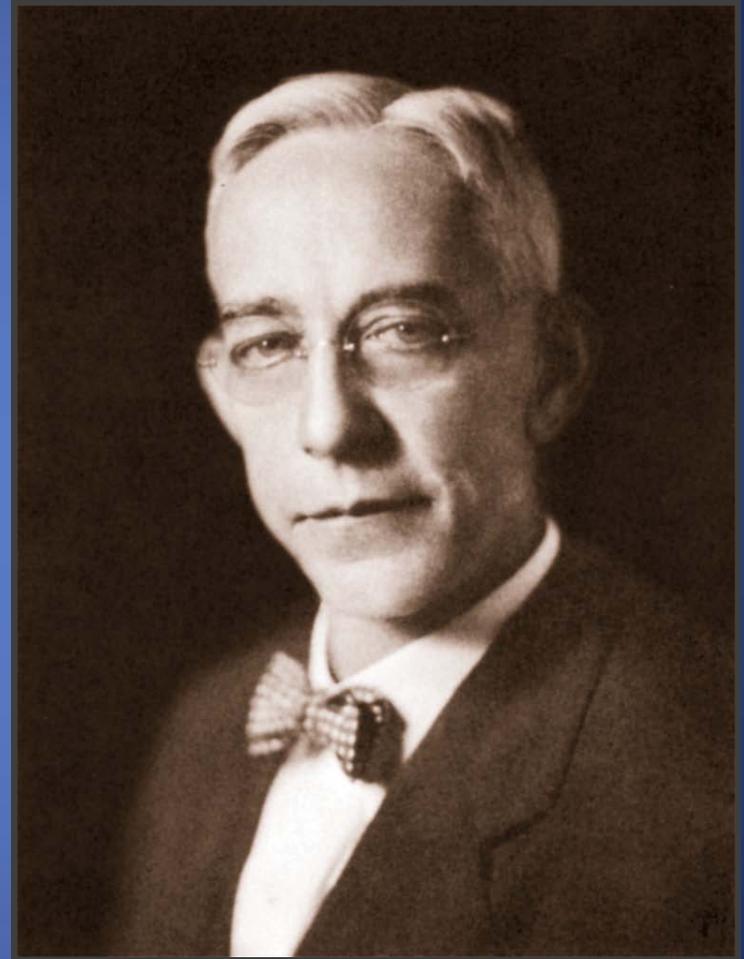
James Hinshelwood, MD, was first physician to advocate for a specific educational approach in *Congenital Word Blindness*.

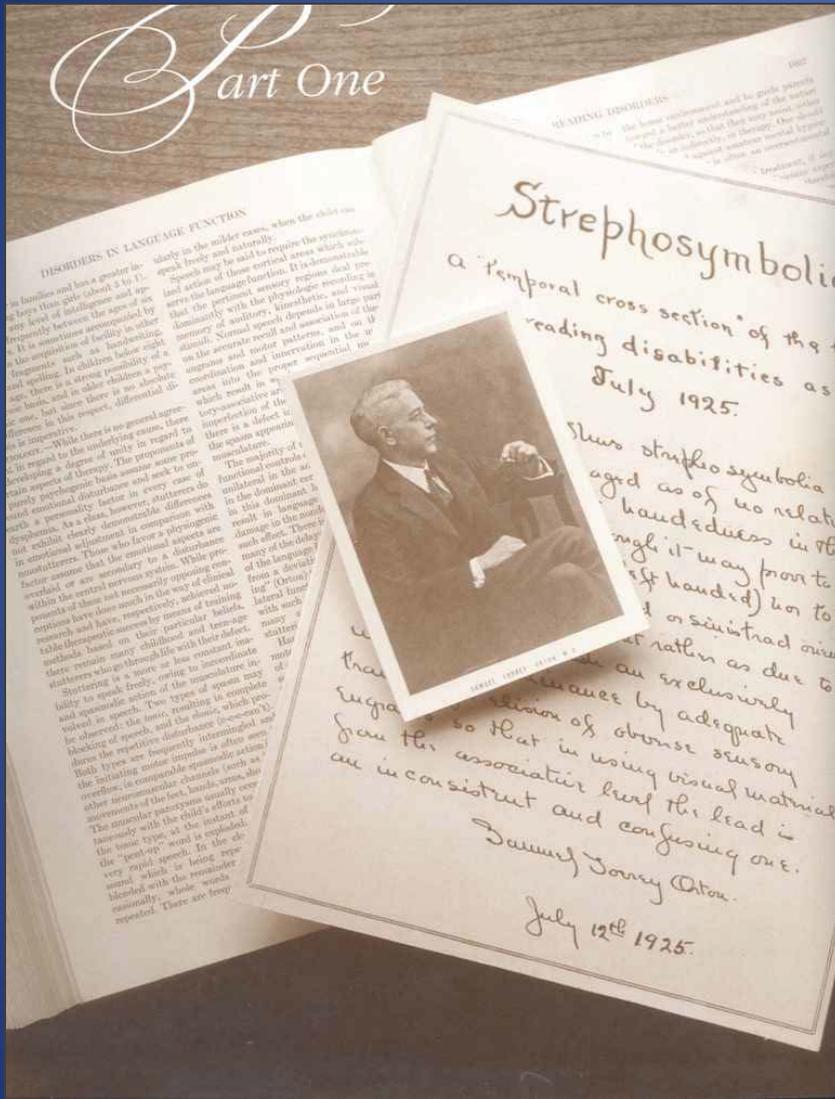


- recommended “the method of simultaneous appeal to as many cerebral centers as possible”
- multisensory approach linking visual, auditory, and kinesthetic modalities of teaching students with reading disabilities

1926

Samuel T. Orton, MD., recommended “the use of all sensory pathways to reinforce the memory patterns and strengthen one another.”



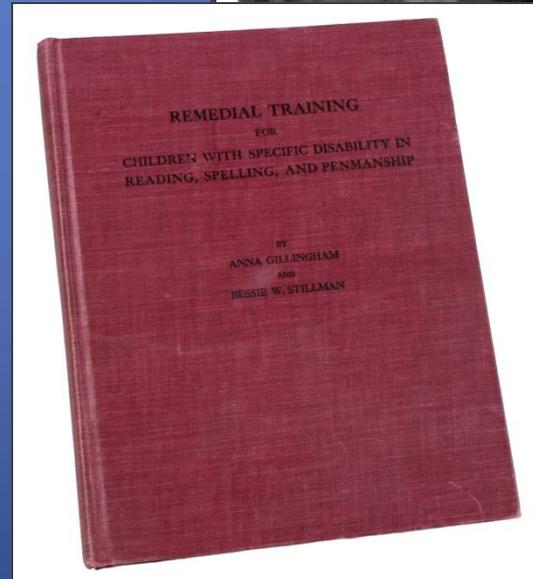


Samuel T. Orton, MD.

Called reading and spelling disorders strophosymbolia.

1920's

Anna Gillingham and Bessie Stillman developed a phonics approach following Orton's theories using V – A – K instruction incorporating activities to link the senses.



1940's

- Began in-depth training in the remedial procedures of Gillingham and Stillman
- Enrolled in the first formal course at Mass General



SALLY B. CHILDS
*editor and chairman,
Anna Gillingham Memorial Committee*

1960's

“A Pioneer in the Treatment of Dyslexia.”

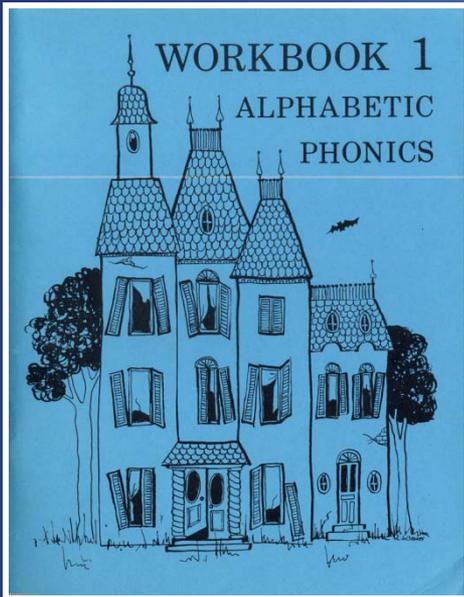
Joined the staff
of Texas Scottish
Rite Hospital in
1964



Luke Waites, M.D.

1965

Alphabetic Phonics



Aylett Cox organized the Orton-Gillingham materials and began teaching in small groups.

A Historical Perspective

- Word blindness (Kusssmaul, 1877; Morgan, 1896)
- Strephosymbolia (Orton, 1925)
- Minimal Brain Injury/Perceptual deficits (Strauss, Cruikshank, mid 1900's)
- Specific Learning Disability (Kirk, 1963)
- **Specific Developmental Dyslexia** (World Neurology Foundation, 1968)

1968

World Federation of Neurology approves dyslexia definition

WORLD FEDERATION OF NEUROLOGY

SECRETARY-GENERAL-TREASURER
EDBOR HENRY MILLER

PRESIDENT
DR. MACDON
INSTITUTE OF NEUROLOGY
40, QUEEN SQUARE
LONDON W.C.1
ENGLAND
TEL. TERMINUS

The first meeting of the World Federation of Neurology's Research Group on Developmental Dyslexia and World Illiteracy took place at the Language Research and Training Laboratory of the Texas Scottish Rite Hospital, Dallas, Texas, U.S.A. on 3rd, 4th and 5th April, 1968. The following attended:

Chairman: Macdonald Critchley, London, England
Lucius Waites, Dallas, Texas, U.S.A.
Stanton Barron, Abilene, Texas, U.S.
Eberhard Bay, Dusseldorf, Germany
Arthur Benton, Iowa City, Iowa, U.S.
Douglas Buchanan, Chicago, Illinois,
Constantin Calavrezo, Bucharest, Rum
Artidoro Cacaes, Lima, Peru
Douglas Crowther, San Francisco, Cal



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Specific Developmental Dyslexia

A disorder manifested by difficulty in learning to read despite conventional instruction, adequate intelligence, socio-cultural opportunity. It is dependent upon fundamental cognitive disabilities which are frequently of constitutional origin.

World Federation of Neurology, 1968

Definition Progression Continued

- Developmental Reading Disorder (American Psychiatric Association, 1980)
- Dyslexia
(International Dyslexia Association, 1995)
- Research based definition
(National Reading Panel and IDA, 2002)

Myths & Misunderstandings About Dyslexia



Does not exist – is merely a catch all term for learning problems



Dyslexia cannot be diagnosed until a child is 8 to 11 years old



It's a visual problem – people see and write letters and words backward



Forcing a student to read every day will make him or her a better reader

Research Based Definition

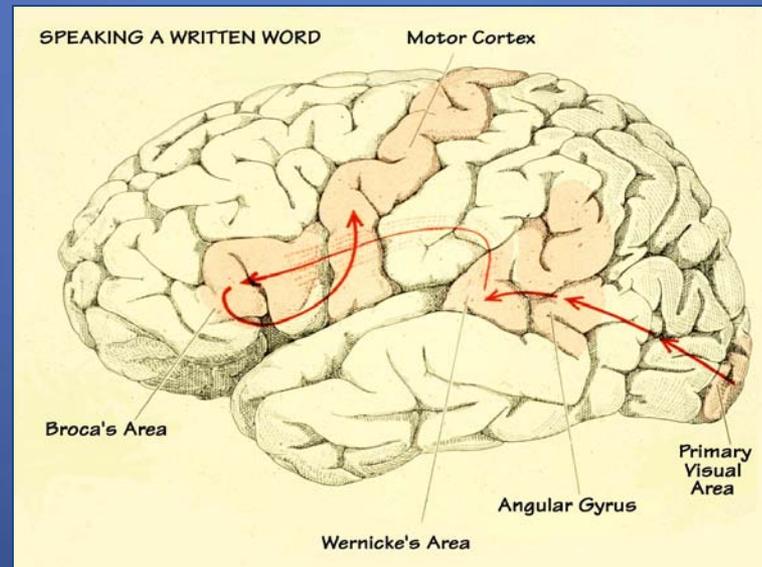
Dyslexia is a specific learning disability that is neurological in origin. It is characterized by difficulties with accurate and/or fluent word recognition and by poor spelling and decoding abilities. These difficulties typically result from a deficit in the phonological component of language that is often unexpected in relation to other cognitive abilities and the provision of effective classroom instruction. Secondary consequences may include problems in reading comprehension and reduced reading experience that can impede growth of vocabulary and background knowledge.

“Dyslexia is a specific learning disability”

- one specific type of learning disability
- not the same as the term “learning disability” that qualifies a student for special education
- however, 80% of students with a learning disability have a reading problem
- may exist along with other conditions such as **ADHD** or an **oral language disorder**

“...neurological in origin”

- when a person has dyslexia, their brain works differently
- these differences have been shown in *fMRI* studies



Geschwind 1979. Scientific American, 241

“ . . . characterized by difficulties with accurate and/or fluent word recognition and by poor spelling...”

- the student misreads common words
- the student stumbles over words when reading
- a student may read a word correctly once and then misread it another time
- the student misspells common words and has problems using spelling rules

“ . . . and decoding abilities.”

- the student has a difficult time making sound – symbol relationships
- the student has a difficult time sounding out words
- the student may look at the first letter of a word and guess what the word is, often adding, omitting or substituting sounds

“...difficulties typically result from a deficit in the phonological component of language ...”

- the “phonological component” is the sound system of our language
- problems with these skills lead to problems in learning to read
- so, surprisingly, intelligence does not always lead to strong reading skills
- this explains why a child who does well in other areas can struggle with reading

“...unexpected in relation to other cognitive abilities and the provision of effective classroom instruction”

- it is a surprise that the child struggles to read
- good reading is not predicted by
 - age
 - intelligence
 - other abilities in school
- good classroom instruction is important!
- watching how the student responds to good instruction can lead to earlier intervention

“...secondary consequences may include problems in reading comprehension and reduced reading experience that can impede growth of vocabulary and background knowledge”

- recognizes that if a child struggles to read, that child will read less
- a child who reads less, does not “practice” and does not improve as quickly as classmates
- a child who reads less learns fewer vocabulary words for reading comprehension

THE DYSLEXIA HANDBOOK

REVISED 2007, UPDATED 2010

Procedures Concerning
Dyslexia and Related
Disorders

TEXAS EDUCATION AGENCY • AUSTIN, TEXAS

FEBRUARY 2007, UPDATED SEPTEMBER 2010

Components of Effective Instruction

Specific Components and Strategies Proven to
Address the Needs of Students with Dyslexia

Phonemic awareness

Graphophonemic knowledge

Language structure

Linguistic

Strategy-oriented

Phonemic Awareness

Enables students to work with sounds
in spoken language.

Identify

Segment

Blend

Manipulate

Graphophonemic Knowledge

Letter-Sound Plan:

- *words are made of sounds*
- *sounds are written with letters in the right order*

Students learn to:

- *blend sounds associated with letters into words*
- *separate words into component sounds for spelling and writing*

Language Structure

Morphology: study of the units of meaning in language such as suffixes and prefixes

WIZARD OF ID

BY BRANT PARKER AND HOHNNY HART



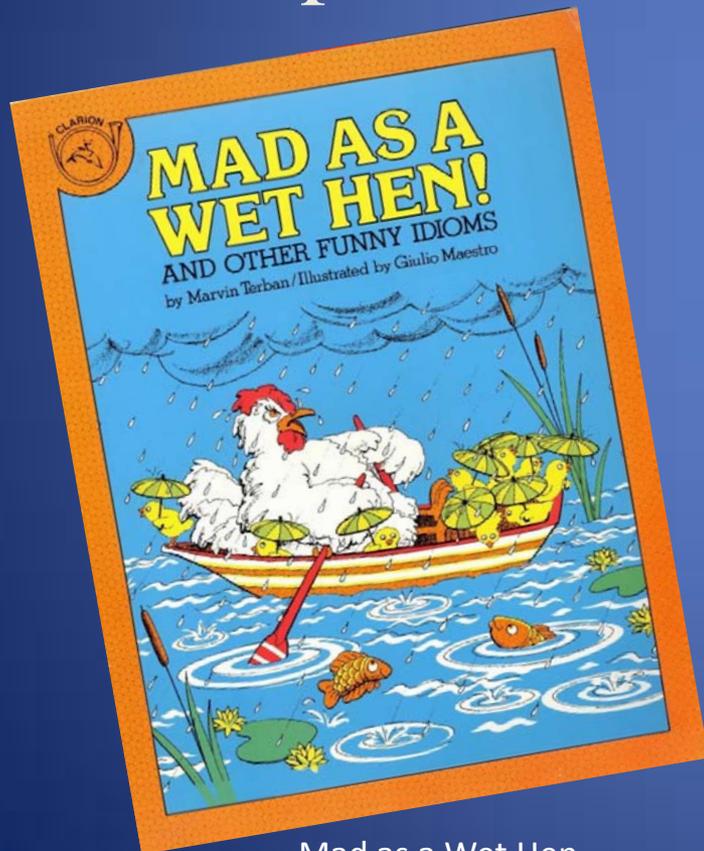
Language Structure

- Syntax:
grammar, the
rules that
determine
word order

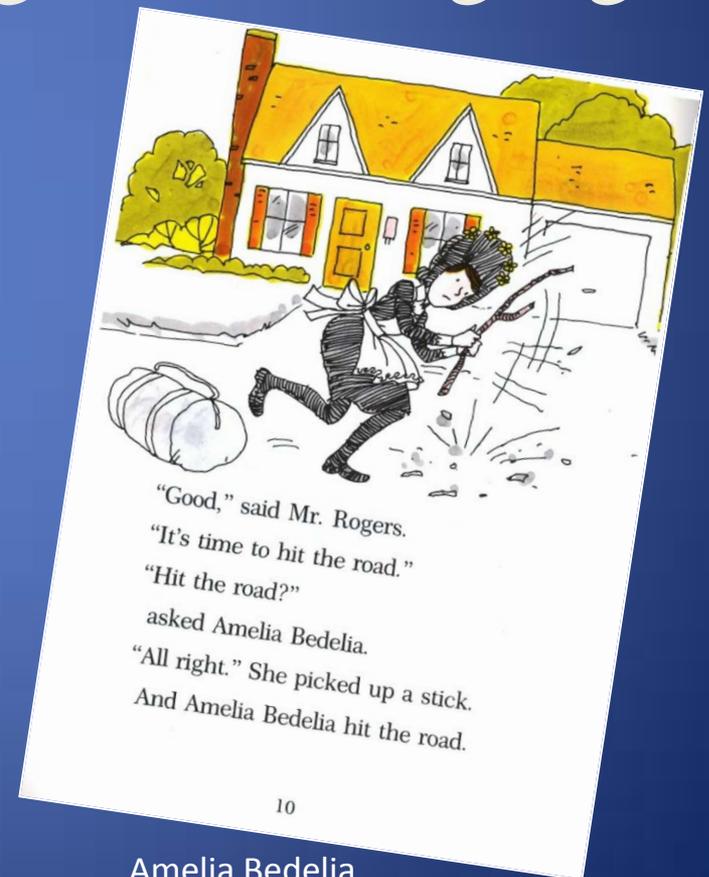


Language Structure

- Semantics: word meaning, deals with multiple meanings and figurative language



Mad as a Wet Hen
by Marvin Terban



"Good," said Mr. Rogers.
"It's time to hit the road."
"Hit the road?"
asked Amelia Bedelia.
"All right." She picked up a stick.
And Amelia Bedelia hit the road.

Amelia Bedelia
by Peggy Parrish

Language Structure

- Pragmatics: the use of language in a particular context

If a child says, "That's how it doesn't go," respond, "You're right. That's not how it goes."



Linguistic

Instruction to improve proficiency and fluency with patterns of language so that words and sentences are the carriers of meaning.

Correct this sentence:

macnelly.com

It was me who broke the window.

Cassell & Spackins

2/7

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It was not me who broke the window.

Strategy Oriented

Reliable set of strategies or procedures for

- Decoding
- Encoding

...that lead to

- *Word Recognition*
- *Fluency*
- *Comprehension*

Descriptors of an Effective Dyslexia Program:

- Explicit direct instruction
- Individualized
- Intensive
- Meaning based
- Multisensory

Explicit Direct Instruction

Systematic

Sequential

Cumulative

- ◆ no assumption of prior skills

Systematic Format

System of teaching that is...

Scientific

Structured

Logical

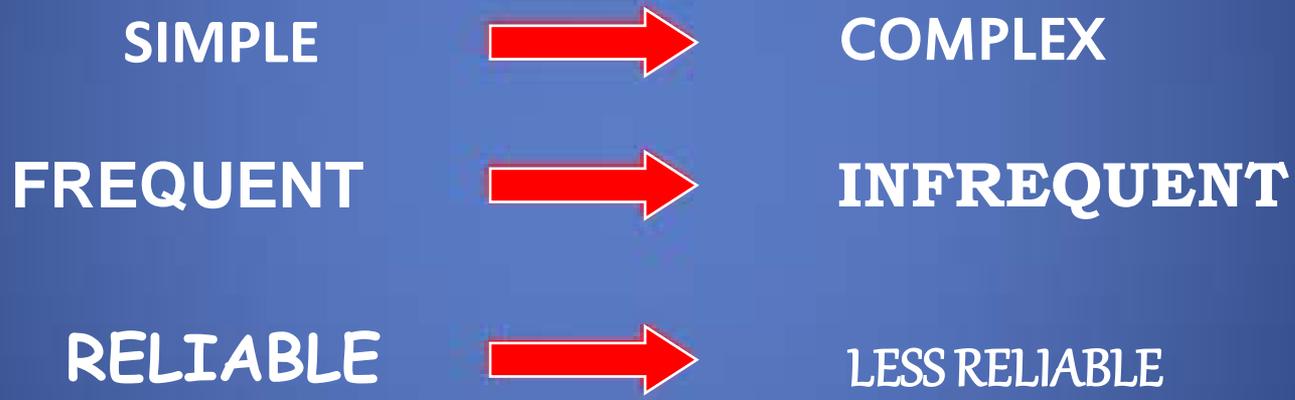
Integrated

Designed specifically for . . .

students with difficulty in reading.

Sequential Presentation

Sequence of Presentation of Concepts:



LETTERS -- *SYLLABLES* -- **WORDS** -- **SENTENCES**

CUMULATIVE INSTRUCTION

Small Increments of New Learning

based on foundation of previous learning

taught from known to unknown

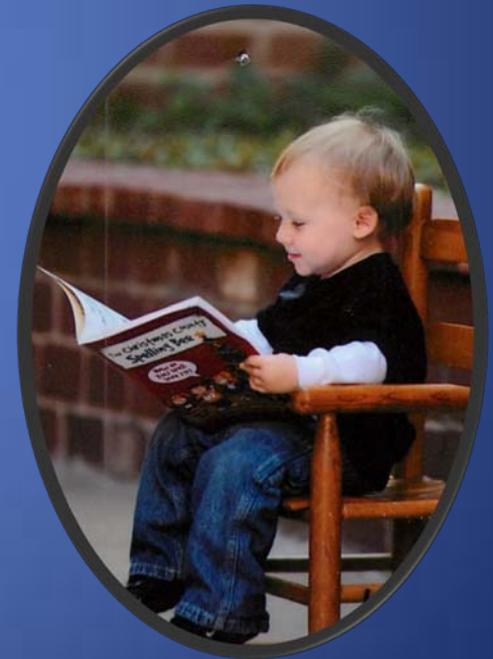
Controlled Materials

Consistent Systematic Repetition

Application of Basic Concepts Learned

What works for student with dyslexia?

Research-based instruction
that matches the
INDIVIDUAL student's
needs



Intensive, Highly Concentrated Instruction

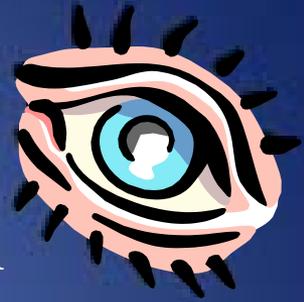
- maximizes student engagement
- uses specialized methods and materials
- produces results
- contains all the Components of Instruction

Meaning Based

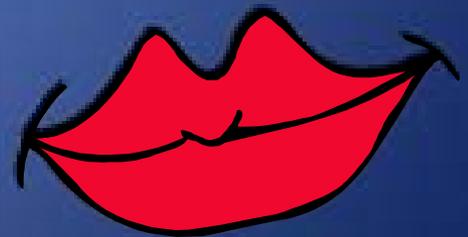
Instructional goals that:

- facilitate accuracy and fluency
- emphasize comprehension and composition

Multisensory



The term **multisensory** has been used to refer to any learning activity that includes the use of two or more sensory modalities simultaneously to take in or express information.



Accredited Courses in Texas

- JPW Learning Center – San Angelo
- LEAD – (Literacy Education and Academic Development) – Dallas
- McKinney Christian Teacher Training – McKinney
- Neuhaus Education Center – Houston
- Scottish Rite Dyslexia Center of Austin - Austin

Accredited Courses in Texas

- Scottish Rite Learning Center of West Texas – Lubbock
- The Shelton School – Dallas
- Southern Methodist University – Plano
- Texas Scottish Rite Hospital for Children
Dallas

Courses In-Process in Texas

- Midwestern State University – Wichita Falls
- Rawson – Saunders School - Austin
- Scottish Rite Learning Center of South Texas – San Antonio