

Technology to Support Individuals with Dyslexia

October is Dyslexia Awareness Month



"No pressure, but I'm a reluctant reader.
So you're confident about this, right?"

Technology, Instructional Technology, and Assistive Technology

Technology is the science of the application of knowledge to practical purposes : applied science. 2. : a scientific method of achieving a practical purpose. (Webster)

Instructional technology leverages of all types of technology to improve teaching and learning.

Assistive technology is anything that can be/is used to increase, maintain or improve the functional capabilities of a student with a disability.

Phonics vs Whole Language

Why not Phonics and Whole Language?

Are there approaches that sit between these two extremes?

What are they?

Must we limit our students to big name programs?

Are there any experts who are dyslexic themselves?

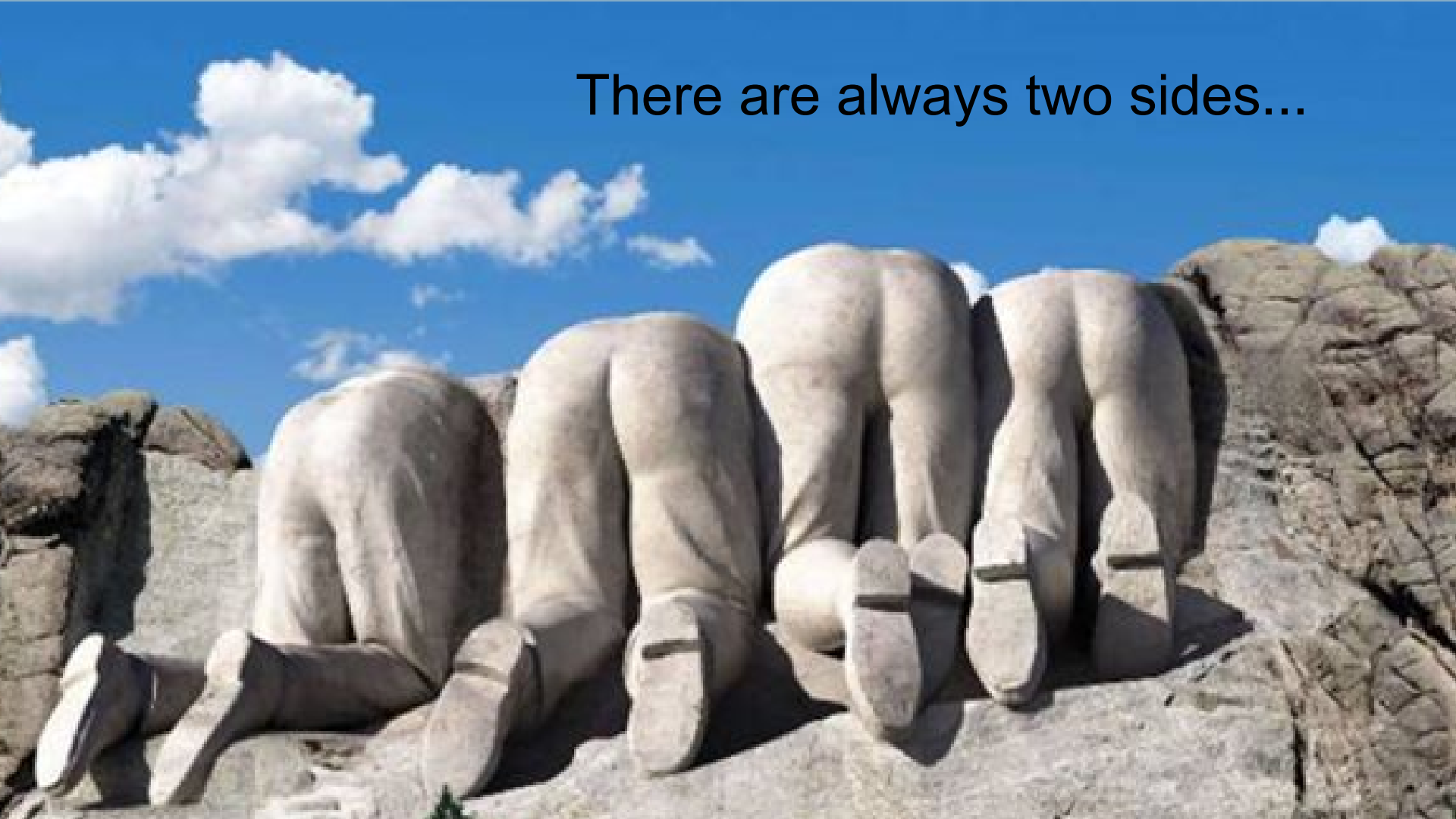
How does technology help?



If a child can't
learn the way we
teach, maybe we
should teach the
way they learn.

Ignacio Estrada

There are always two sides...



Topic Approach

Print Awareness

Read Aloud

Alphabet Principle

Phonemic Awareness

Phonics

Sounding Out Words

Sight Words

Vocabulary

Some ABC and Phonics iPad Apps

ABC GoGo FlashCards - letter, sound, image

ABC123 - teaches letters and numbers with naming & writing practice

First Letters and Phonics a talking alphabet book















ABC Phonics Animals - letter, sound, and image

Preschool University



























Pocket Phonics

Phonics Genius

Let's learn the Alphabet

| | | | |
|--|---|---|--|
| Aa  Apple | Bb  Ball | Cc  Cat | Dd  Dog |
| Ee  Egg | Ff  Frog | Gg  Goat | Hh  House |
| Ii  Ice-Cream | Jj  Jug | Kk  Kite | Ll  Lion |
| Mm  Monkey | Nn  Nest | Oo  Orange | Pp  Pig |
| Qq  Queen | Rr  Race Car | Ss  Star | Tt  Teddy |
| Uu  Umbrella It's so easy to | Vv  Violin | Ww  Watermelon | Xx  Xylophone |
| ABC! | Yy  Yacht | Zz  Zebra |  edgalaxy.com The best in English resources |

My alphabet mat

| | | | |
|---|--|--|--|
| | a  | b  | c  |
| d  | e  | f  | g  |
| h  | i  | j  | k  |
| l  | m  | n  | o  |
| p  | q  | r  | s  |
| t  | u  | v  | w  |
| x  | y  | z  | |

Teachers
of
the
World
copyright www.tpt.co.uk



Alphabet taught to kids nowadays



A: APPLE



B: BLUETOOTH



C: CHAT:



D: DOWNLOAD



E: E MAIL



F: FACEBOOK

Google

G: GOOGLE



H: HEWLETT
PACKARD



I: Iphone



J: JAVA



K: KINGSTON



L: LAPTOP



M: MESSENGER



N: NERO



O: ORKUT



P: PICASSA



Q: QUICK HEAL



R: RAM



S: SERVER



T: TWITTER



U: USB



V: VISTA



W: WIFI



X: Xp



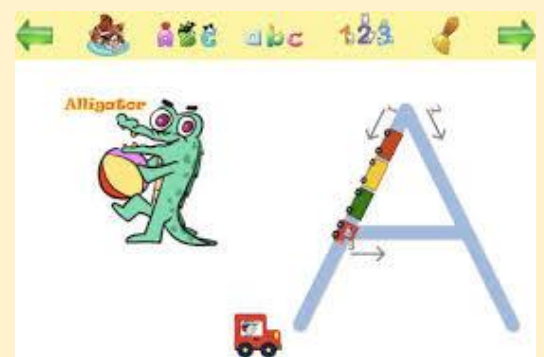
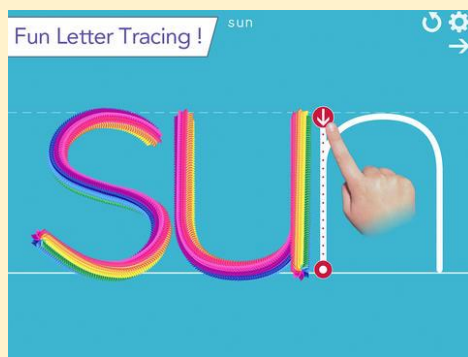
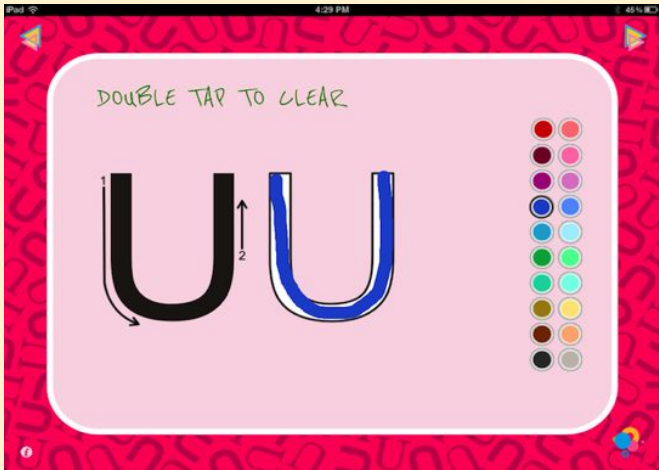
Y: YOU TUBE



Z: ZORPIA

Let's Make an Alphabet!





Some iPad and Sounding Out Words Apps

Match letters and sounds to build words

PBPhonics*

iSpy Phonics - Montessori

Word Wizard - Montessori

Sound Beginnings

Little Reader 3 letters

Build a Word - can make your own lists

Sound Beginnings

Build A Word

Ladybug Sight Words

Ace Writer - Dolch Sight Words
(see, hear, write)

Spelling Free

Vocabulary

As you read more and more difficult books, the words go from familiar to unfamiliar. Words must be explained to be learned. Learning vocabulary takes many exposures to the words.

Fluency

Generally defined as smooth silent reading.

In schools, generally this refers to oral reading which is smooth with appropriate meaning and expression.

Either way, it takes hours of practice.

Reading more leads to reading better and faster.

<http://bit.ly/1EXjin>



**IT'S NOT IMPORTANT WHETHER CHILDREN HIT THE TARGET TODAY.
IT'S WHETHER THEY COME BACK TO TRY AGAIN TOMORROW.**

RICK STIGGINS

Google Apps and Extensions

Read&Write by TextHelp

Dyslexie font

Beeline Reader

SpeechPad

Clearly

Claro Read

Broadcast this URL

**If you are not willing
to learn, no one
can help you. If
you are determined
to learn, **no one**
can stop you.**

WWW.LIVELIFEHAPPY.COM

Websites

Newsela

Kids Click - web search

Lexia

Games

Set

Flow

Where's Waldo, What is different?

Puzzles

World Art Masterpieces

Google Tools

Research

Images

Search - Advanced

Recording Tools

Live Scribe Pen - records lecture - syncs handwritten notes with the recording

Sound Note - iPad app that syncs typed notes with the audio recording

Notability - Type, write, draw, record

AudioNote - type and record



Keyboarding and Diana Handbury King

Keyboarding - meets the criteria of being multi-sensory...

Sight

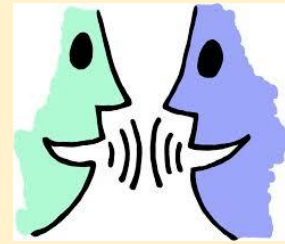
Sound

Kinesthetic

phonics and whole language...



Using eBooks and Audio Books



Reading to student, reading with student, student reading by him/herself...

Bookshare (Read2Go and Voice Dream Reader)

Learning Ally

Libravox

Guttenberg Project

iBook, Kindle, Google Play, and Nook

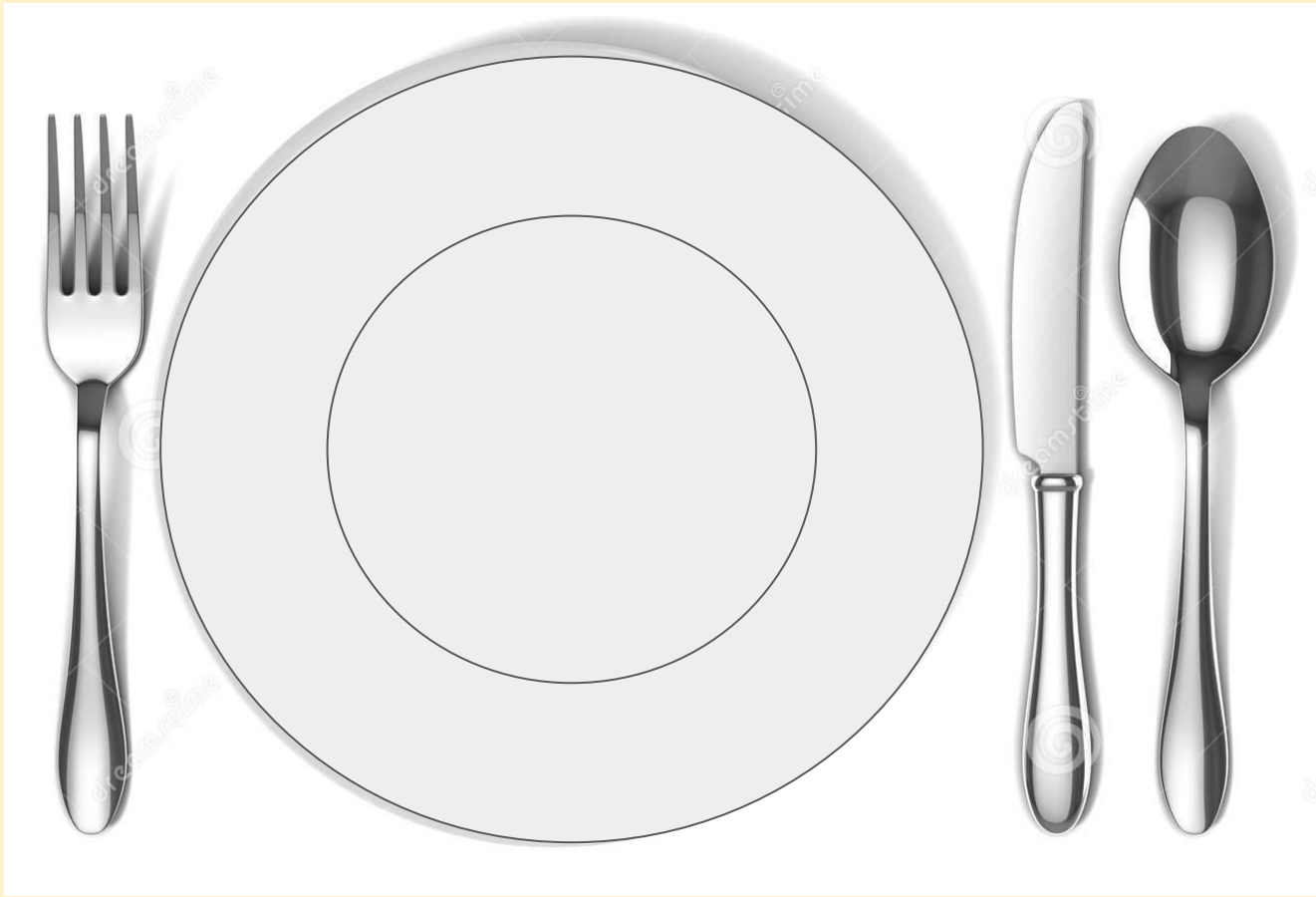
Alternate Methods Using Audio...

You read, student listens - audio processing

You read, student follows - eye tracking and audio processing

You read, student follows and occasionally is asked to read the next word

You read and the student follows. You ask the student to scan a paragraph and find three words. The words are given one at a time in sequence.



context



EQUALITY



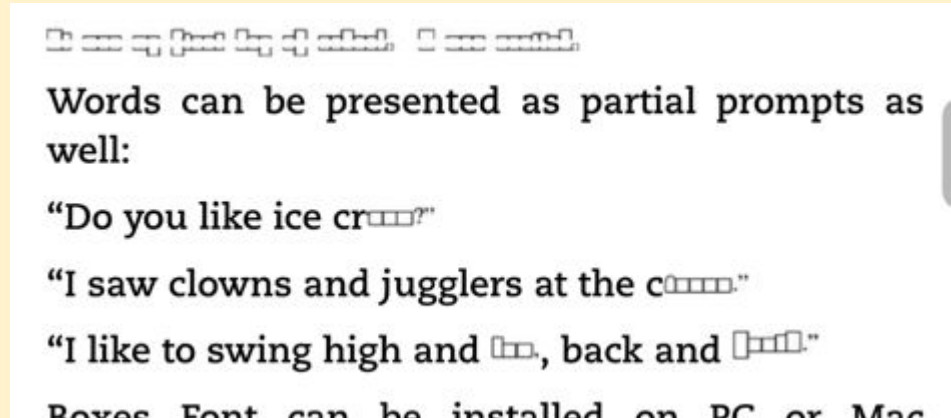
EQUITY

Text on Paper and Text on Screen

Fixed text on paper - print disability

Text on screen can be manipulated in many ways...

overlays, colors, size, font, spacing between words, space between lines, alignment, etc.



Fonts

Calibri - The quick brown fox jumps over the lazy dog.

Arial - The quick brown fox jumps over the lazy dog

Open Sans - The quick brown fox jumps over the lazy dog

Trebuchet - The quick brown fox jumps over the lazy dog

Verdana - The quick brown fox jumps over the lazy dog.

Helvetica - The quick brown fox jumps over the lazy dog.

Times New Roman - The quick brown fox jumps
over the lazy dog.

Screen Readers

Universal Reader Plus

Read&Write

Claro Read

JAWS - Job Access with Speech

VoiceOver

Voice Dream Reader

Subtext for Google Play Books

*KNFB Reader, Prizmo, and Google Translate Apps (photo to speech)

The quick brown
fox jumped
over the lazy
brown dog.

01 Heavy bottom

Dyslexie acknowledges that letters can be viewed as 3D objects. If letters are 3D objects, then gravity applies. Dyslexie weighs down the bottom of each letter, preventing it from tipping upside down.



Audio Books

iTunes

Audible

Kindle

Nook

Librevox

Tales2Go

Public Library and CW Mars

OverDrive

Writing

speech-to-text (and reading back what has already been written - text-to-speech)

word prediction and word bank

word processing

spell check and grammar check

dictionaries

handwriting to text

Messages

Edit

can you explain the cell
devison very fast?

o

0

8

oo

..thx



Send

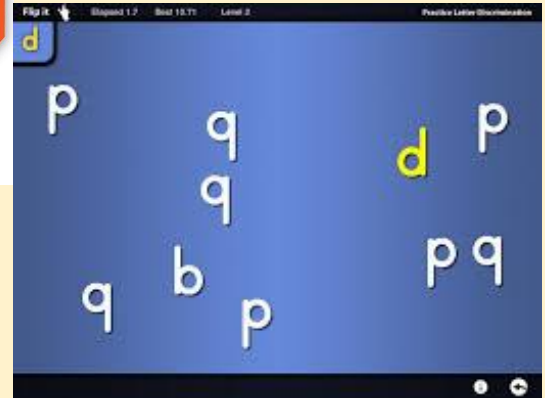
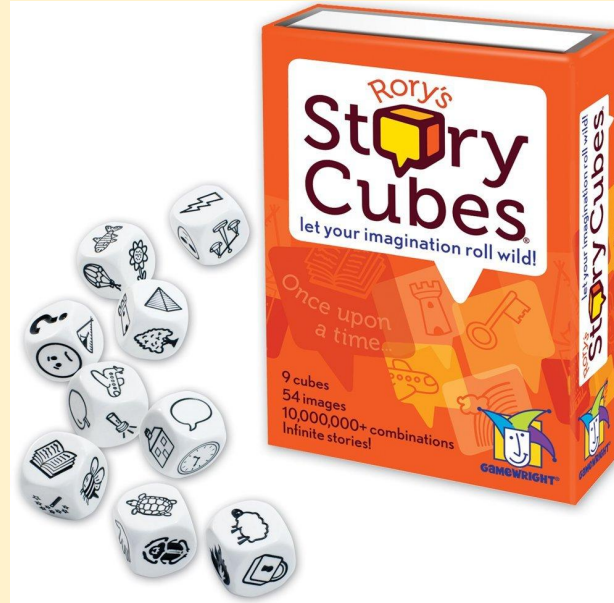
Writing Apps

Story Cubes

Book Creator

Character Prompts

Letter Reflex VPP



Speech-to-Text

Dragon Dictate and Dragon Naturally Speaking

Siri and Cortana

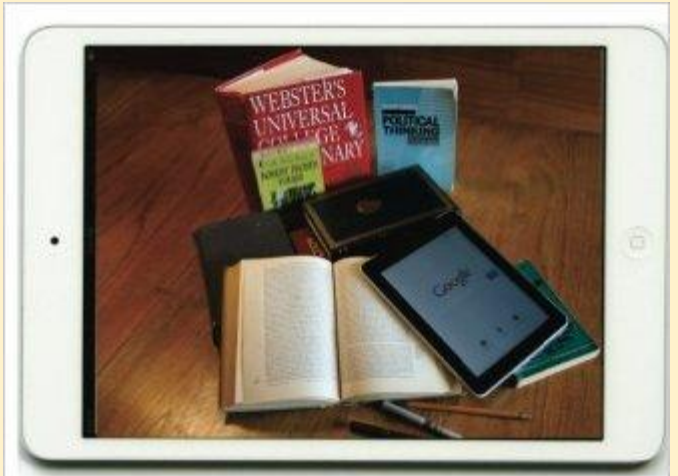
Google Read&Write

iOS and Windows built in speech recognition

Dyslexia and the iPad

Jim Nuttall, dyslexic educator

talks about how the iPad changed his life...



Dyslexia

and the

iPad

Overcoming Dyslexia with Technology

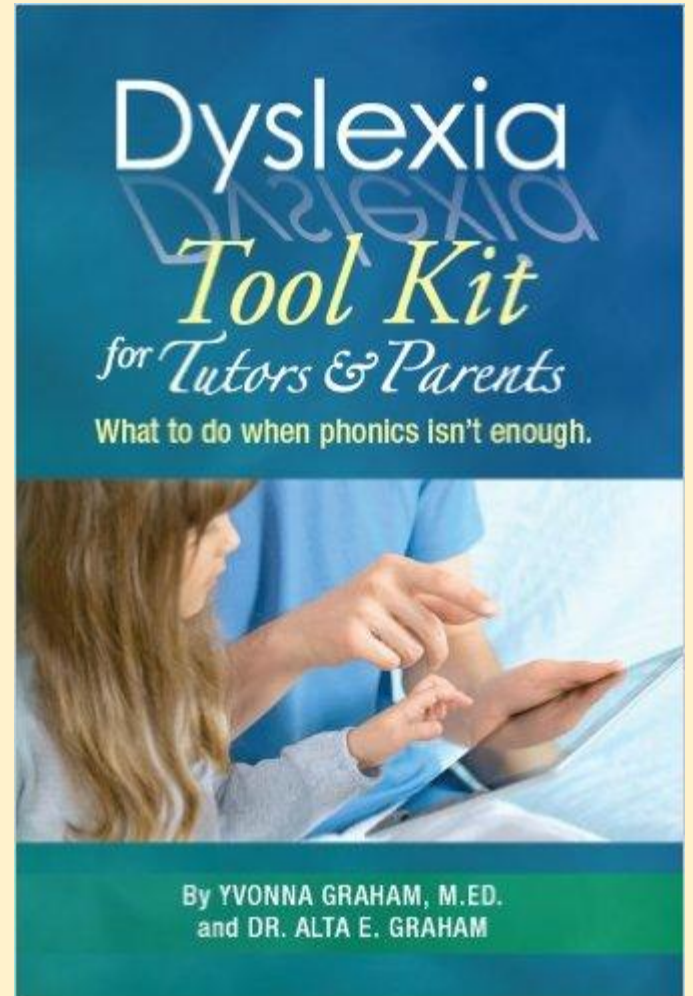
James & Linda Nuttall

Dyslexia Tool Kit

fonts

ideas

resources



Speed Reading Techniques

lines

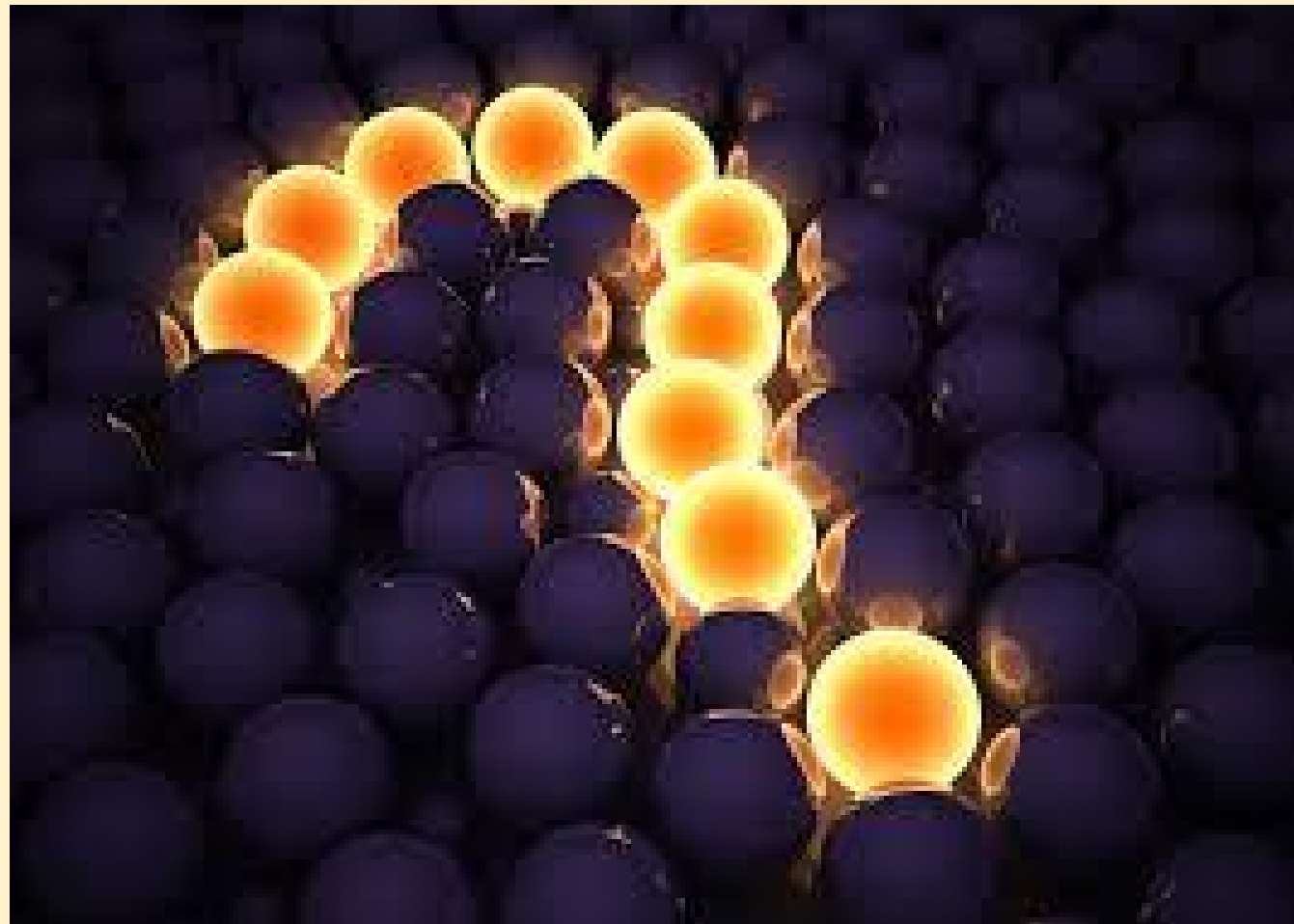
chunks

paragraphs

Freeing the student to read like a speed-reader can have dramatic results.







<http://bit.ly/K5EZYR>



THE FLAWED NOTION THAT PROGRESS HAPPENS IN LEAPS AND BOUNDS IS AN **ORGANIZATIONAL CURSE**. REAL PROGRESS STARTS AND ENDS WITH TEAMS COMMITTED TO TAKING **ONE STEP AT A TIME** TOGETHER.



Teaching
vs
Learning



Fun With Words

A linguistics professor was lecturing to his class one day.

"In English," he said, "a double negative forms a positive. In some languages, a double negative is still a negative. However, there is no language wherein a double positive can form a negative."

A voice from the back of the room piped up, "Yeah, right."

Keep on sharing!
ontheplus.com

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