



**MTSS:
Leveraging
Technology to
Support Learners
at Every Tier**

Giving Everyone What They Need -
When they Need It

Technology Resource Center of Marin

trcmarin.org

Home

• Services

• About

• Resources

Calendar

Open Labs

Tr



Welcome!

The Technology Resource Center of Marin provides resources for Marin County Public Schools. Since 2001 we have served students and become an internationally acclaimed model for how to meet students need for living and learning. The Technology Resource Center of Marin Education, a group of volunteer parents and professionals, has been operating funds for our first five years and we urge all parents to get involved.


Our Mission

Our mission is to inform, evaluate and provide resources for Technology and Augmentative Alternative Communication and opportunities for all students with any type of disability.

Philosophies of Technology and Education

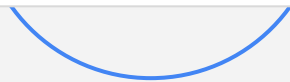


Never too early to start




A student doesn't have to fail to have a need for assistive technology

With appropriate tools in place for ALL students, many students may never have a need for Special Education



A student may need different tools for different tasks



INSPIRED BY A PUBLIC SCHOOL STUDENT WITH DISABILITIES



© 2002 MICHAEL F. GIANGRECO, ILLUSTRATION BY KEVIN RUELLE
PEYTRAL PUBLICATIONS, INC. 952-949-6707 WWW.PEYTRAL.COM

CLEARING A PATH
FOR PEOPLE WITH SPECIAL NEEDS
CLEARS THE PATH FOR EVERYONE!

MTSS for Assistive Technology Needs for Every Student

1

Tier 1: Resources and Trainings for Everyone. Knowledge is free and powerful.

2

Tier 2: Open Lab and teacher support for AT in the classroom.

Available on an ongoing weekly basis

3

Tier 3: Consultations:

Referred by district personnel
- is free and gets everyone
“on the same page”

Extra intervention, tools and supports are immediately provided as needed

Dyslexia and Struggling Readers

Affects 20% of students

1 in 3 students struggle with traditional text

Over half of that number of students can be drastically reduced or even eliminated by modifying text

- Size
- Font
- Spacing
- Color

Students that are interested and motivated by the material may not always need the same supports as when using less familiar topics

Assessing Needs

What reading assessments is your school using to assess reading?

What assessments is your school using to assess comprehension?

Are you modifying text? If the answer is no, you may not be getting an accurate assessment of reading ability

Protocols for Reading Accommodations

Don Johnston - leading company for struggling readers and writers -
www.donjohnston.com/PAR

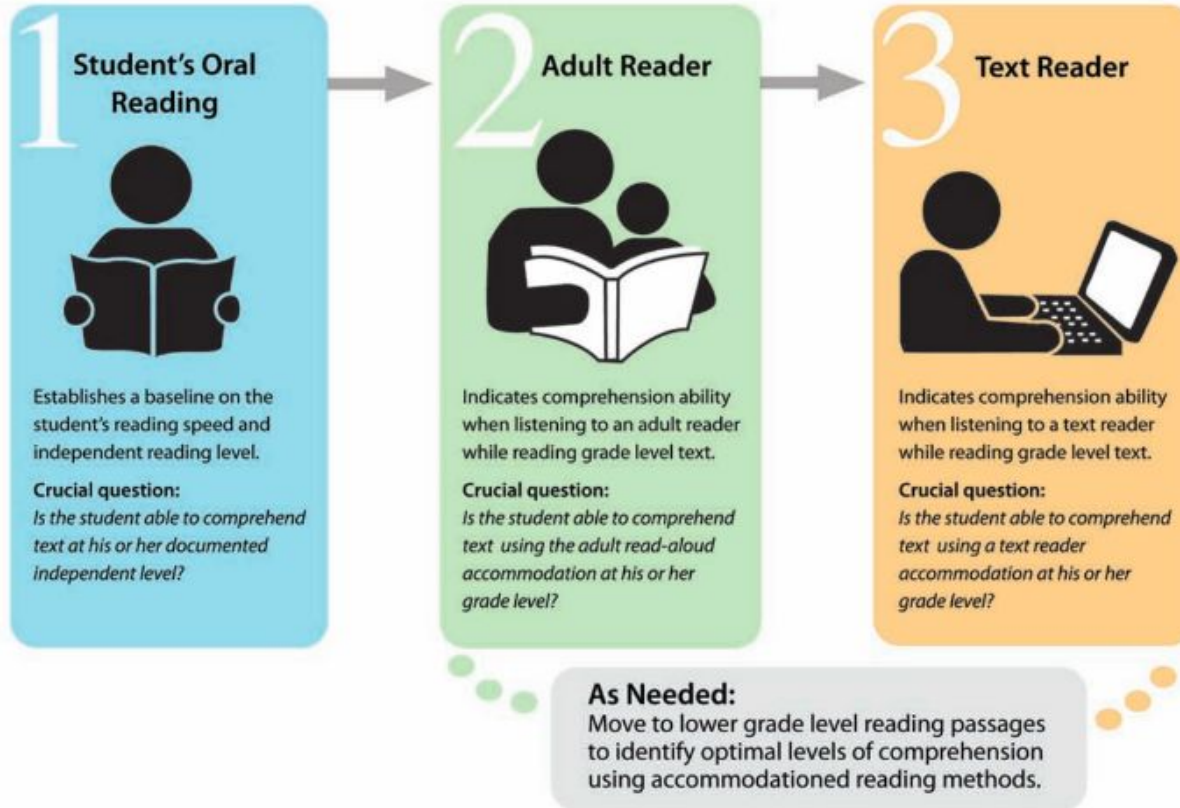
Available online version or PDF (free)

Assesses reading comprehension in 3 areas:

- Independent Oral reading
- Adult Reader
- Text Reader

Profile for Accommodation in Reading

Using an evidence-based approach to compare the effectiveness of reading accommodations



Chrome Accessibility

Chrome - Universal Platform

- Extensions, extensions, extensions
- Allow free tools for everyone to overcome reading barriers
 - Adjust text format
 - Sight Word/Decoding
 - Vocabulary
 - ESL challenges
 - Comprehension
 - Tracking - reading fluency

TTS - Text to Speech - is not cheating!

Tier 1:

Reading for Everyone

Questions to ask

Do teachers/students have the ability in your district to download extension or adjust settings?

Do teachers or therapists have the ability to conduct trials on target extensions?

Some basic tools for everyone include:

- Adjust font and size
- Dictionary
- Text to speech
- Edit independently

Adjust font and size

Chrome settings

Basic Control and + or - to adjust size

Extensions such as Mercury Reader to eliminate visual distractions and set specific font size

Dictionary Supports

Dictionary automatically within Google Docs

For text based websites:

- Instant Dictionary
- Google Dictionary
- 'Saurus
- Google Translate

You can define how to access it (all can be accessed by Control + click)

Text to Speech Options

Many possibilities

Some with text highlighting and others without

Text highlighting assists students to follow text as it is being read

- Select and Speak
- Click2speech - highlights text

Independent Editing

Beyond text to speech to listen to text, many editing extensions to not only assist in correction, but TEACHING as well

- Ginger
- Grammarly

For students who need more

Students who need definitions read to them

Students who need picture support for comprehension

Students who need human voice rather than electronic text

Students who need specific assistance with vocabulary skills

Students who need to be able to read non text based sites (PDFs, flash, etc.)

Extended features tools

Read and Write - www.texthelp.com

- Reading/Writing/Vocabulary support
- FREE for teachers!
- Annual fee per student/per 100 students/or entire school
- Must be set up by administrative school district

Snap and Read - www.donjohnston.com

- Reading/translation/notetaking support
- Specializes in alternative text format
- Monthly fee available - can be set up by anyone for any student

Provision of Text for Print Disabilities

With the revision of IDEA in 2004, school districts are required by law to provide text in an accessible platform

Law went into effect in September of 2006

Print Disability can be under the following qualifications:

- Visual Impairment
- Physical Disability
- Learning/Cognitive Disability
- Reading Accommodations (Learning Ally)

Choices to Consider for Providing Accessible Text

Bookshare - www.bookshare.org

- Free for any student who qualifies
- Can be signed up as an individual or an organization
- Provides text - text to speech and screen readers to access

Learning Ally - www.learningally.org

- Fee based - per student or school
- Human Voice - Voice Text Options
- Available on any platform

Tier 1:

Writing for Everyone

Do students have the option to write using digital tools versus standard writing tools?

Does your school have tools available for trials?

Tools that have changed writing using Assistive Technology:

- Voice Typing
- Word Prediction

Tools to help everyone

Templates to assist in organization of writing

Access to voice input - possible headphones with microphone?

Available in any platform - built into Google Docs and Chromebook platform

How are you using it?

- Brainstorming ideas
- Expanding on written language
- Does not have to be the sole method for producing written language!

What are your ideas that you are thinking about?

- 1.
- 2.
- 3.








Why do you want to write about this?

What are 3 things you know about this topic?

- 1.
- 2.
3. |

ideas - Google Search

logo icon clipart graphic concept innovation cartoon illustration



For students who need more

Word Prediction:

- Spelling Challenges
- Sentence Expansion
- Increase productivity

Read and Write has word prediction access

Co:Writer - www.donjohnston.com

- Most comprehensive word prediction tool
- Overcome extreme spelling challenges
- Topic dictionaries
- Monthly charge - can be set up by anyone

Non web-based texts

Students struggle with worksheets - reading and writing

Easy to accommodate with common tools

- Scan - best outcome
- Take a picture (feature on any platform for mobile tech tools)

Students need a way to read and write on PDF or jpeg formats

Note to future teachers - if you don't know the direct digital source - DON'T USE IT!

A Couple of Options

Doc Hub - www.dochub.com

- Free - Easy basic text input

Kami - www.kamiapp.com

- Free version for basic annotation
- Teacher version (\$99 annually) for up to 150 students
- Text to Speech
- Voice Typing
- Equations
- Voice and Video comments

Tier 3:

Students with more significant reading needs

Adapted text resources:

- Wide variety of younger emergent reader possibilities with text to speech options (OneMoreStory, RazKids, Newsla, News2You, etc)
- Start to Finish Books - Don Johnston
- www.tarheelreader.org - adapted books - read and write your own customized
- Book Creator - iOS app and Chrome - create your own using video and/or photos with recordings

Tier 3:

Students with more significant writing needs

Use of symbols/language support - Various AAC systems to support writing

- Proloquo2Go
- TouchChat
- LAMP Words for Life

Structured Word Choice - Word Wall support

Clicker Tools - www.cricksoft.com

- Clicker 7
- Clicker Docs, Sentences, Connect, Books
- Available in Chrome as an app



Thank you!

dphillips@marinschools.org

Technology Resource Center of Marin

www.trcmarin.org