



Assistive Technology Strategies for Students with TBI

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Brain Injury Services

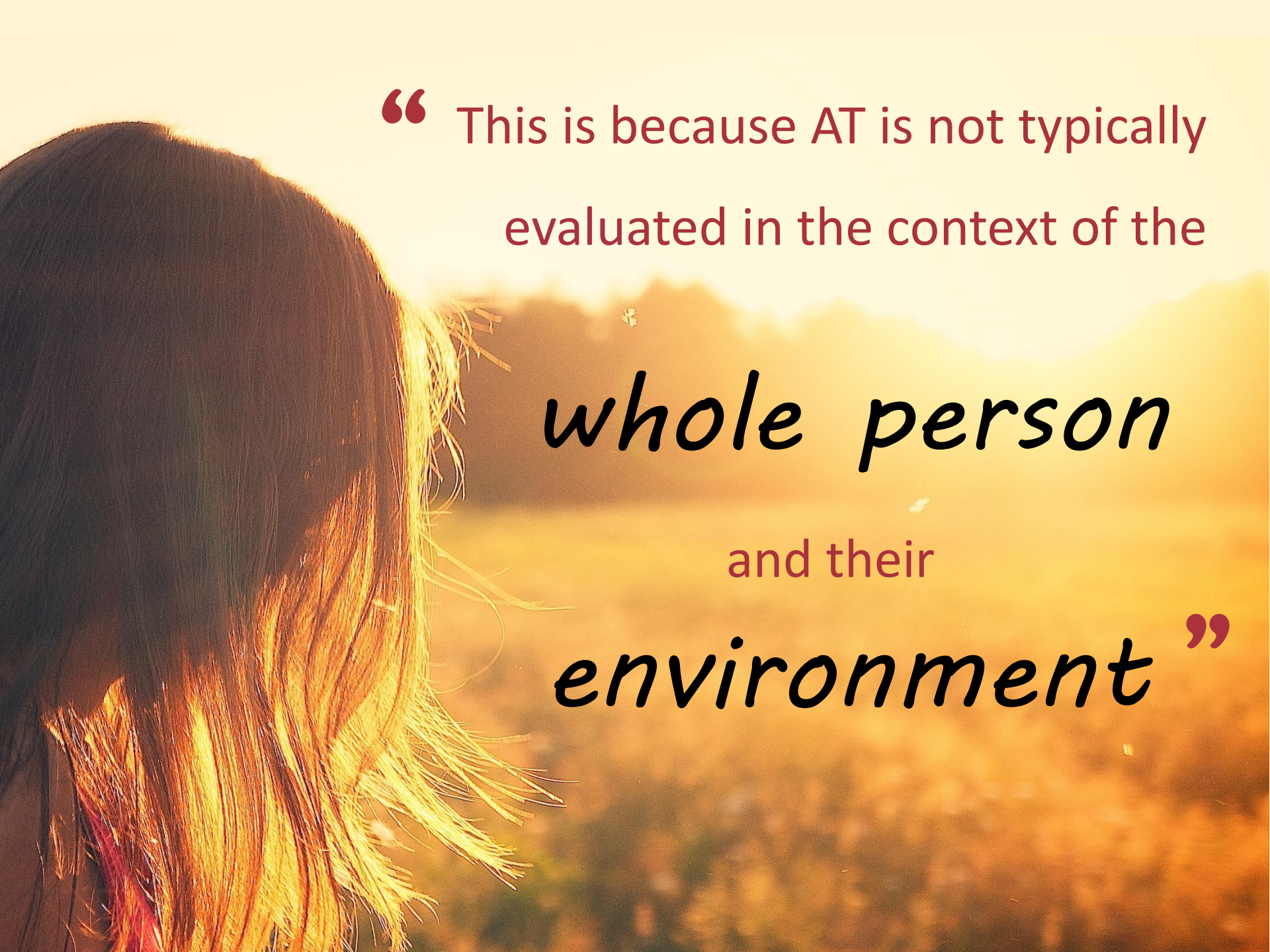


For people with
cognitive disabilities

90%

of devices are

DISCARDED



“ This is because AT is not typically
evaluated in the context of the

whole person

and their

environment”

The tool or technology is
the least important thing





Validation

Empathy

Resiliency

Agency

Hope

The Visitor
The Complainant
The Customer



Adapted from Solution Focused approaches



The Visitor

- There is no problem or
- The problem belongs to someone else
- Want to get others off their back
- Sees no reason to change



The Visitor

- Compliment willingness to attend and listen
- What is working?
- How can you show others you can ____?
- How can I help you demonstrate your skill?

The Complainant




- Understands there is a problem
- Uncertain how to address issues
- Views self as a victim
- May not see self as part of solution or be committed to taking action

The Complainant




- Praise awareness and insight
- Ask for exceptions and analyze for ideas
- Encourage creative problem solving
- Identify small actions to take and monitor



I got this!

The Consumer

- Aware of issues and ready to address
- Has concrete goals
- Willing to try new things and make changes
- Can be active partner in exploring new strategies

A young boy with short brown hair, wearing a maroon cardigan over a white shirt, is sitting at a desk. He is looking directly at the camera with a slight smile. His hands are on a desk covered with various papers, including a large sheet of paper with text and a red folder. A thought bubble above his head contains the text "I got this!". The background is a red wall with a white dotted pattern.

I got this!

The Consumer

- Praise current efforts and provide positive feedback
- Keep focused on goals and prioritize
- Prepare for setbacks and frustrations
- Reinforce growth mindset

The Power of

YES



Assistive Technology for Cognition

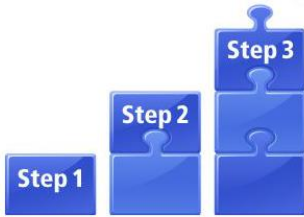
- Types of AT for cognition with examples
- Three components of independent use
- Environmental modifications



Alerting



Reminding



Prompting



Storing and Displaying



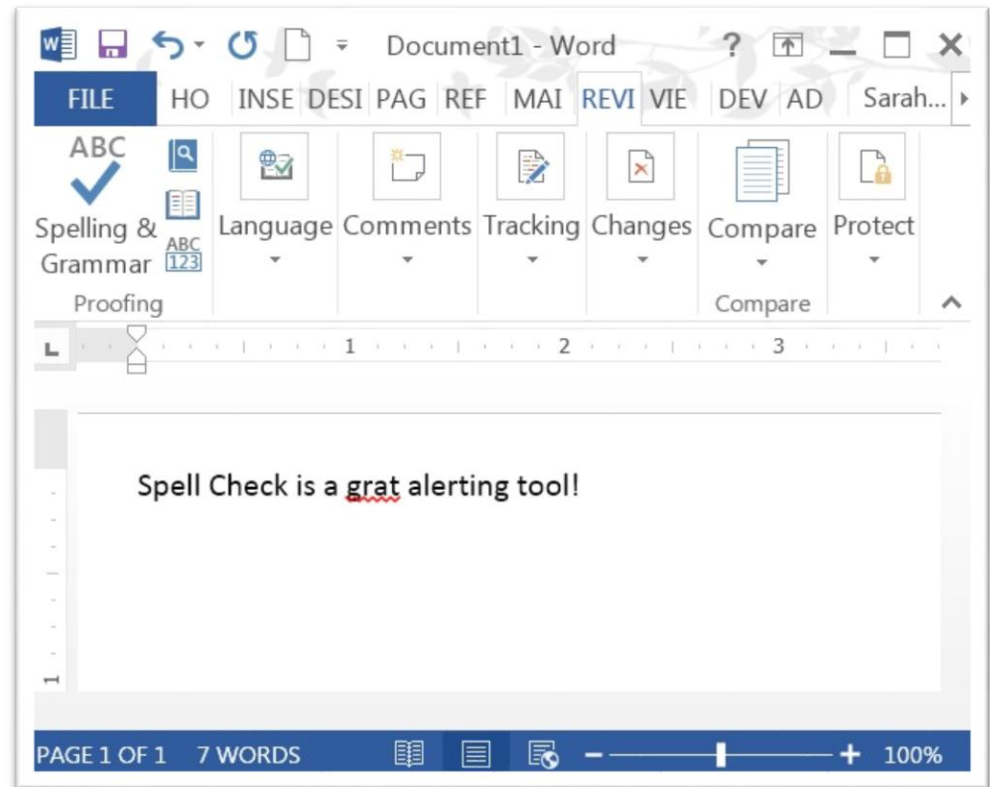
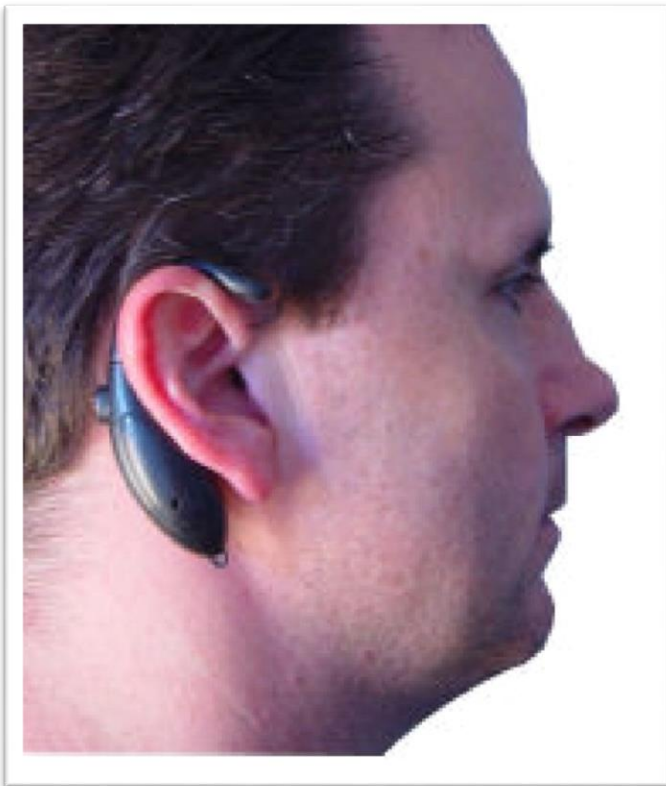
Self-Regulating

Alerting Technologies

Direct attention to internal or external stimuli

Drowsiness Alert

Spell Check

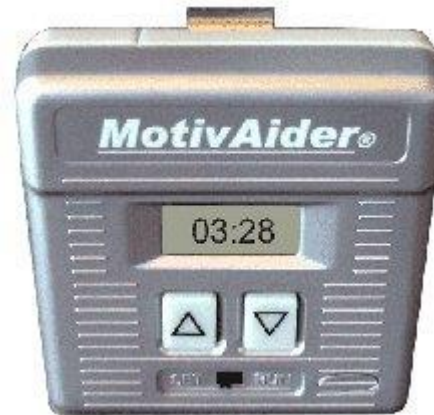


Mid-Tech Alerting

Vibrating Pager



MotivAider



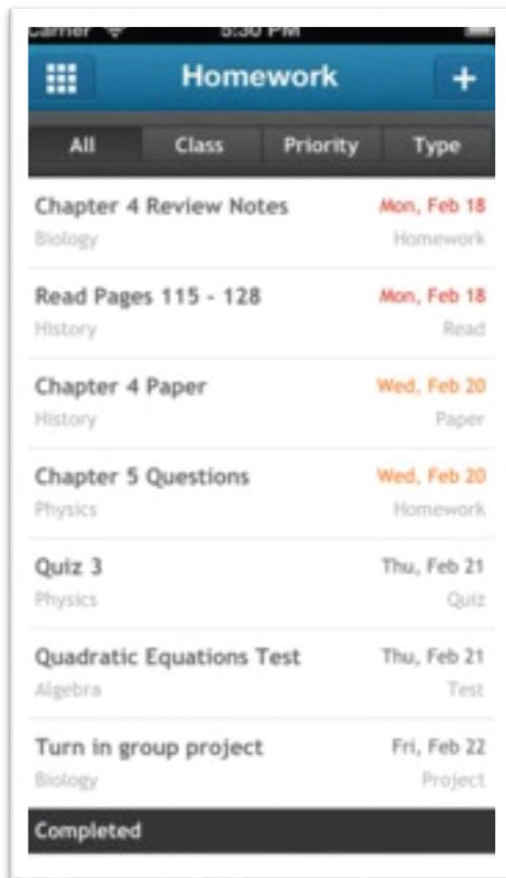
RE-vibe



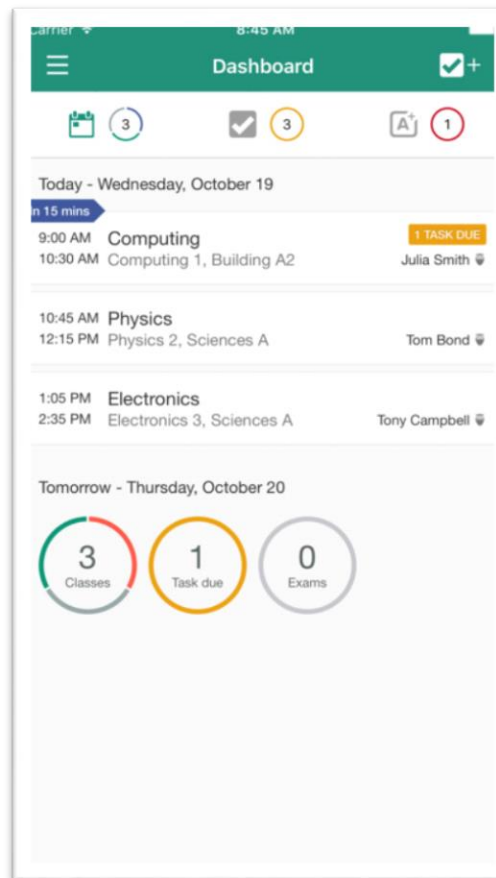
Reminding Technologies

Time-dependent reminders to cue action.

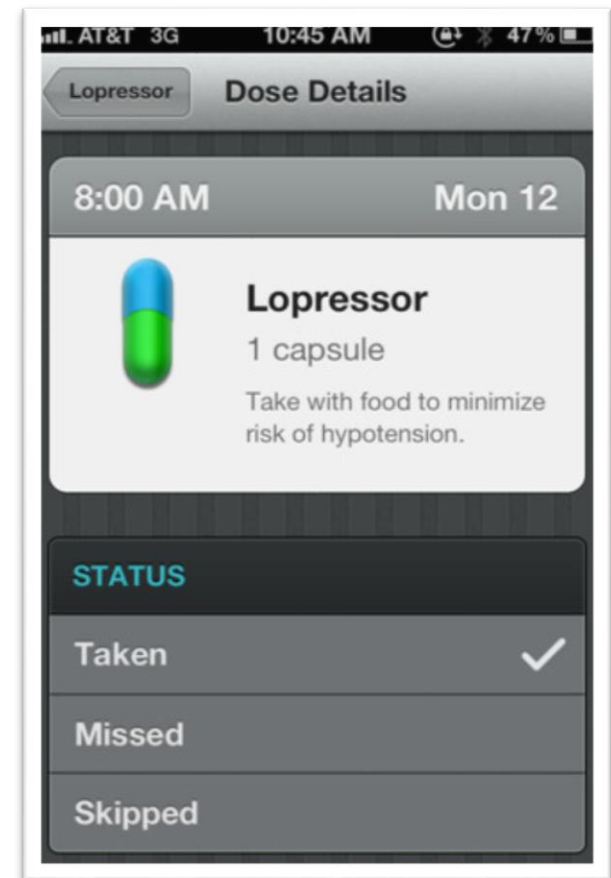
MyHomework



My Study Life



Pillboxie

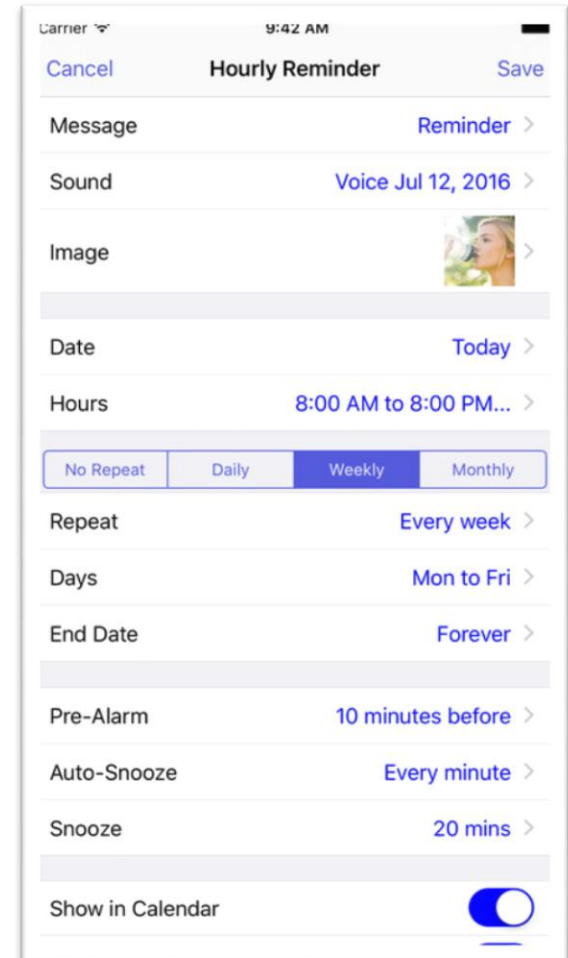
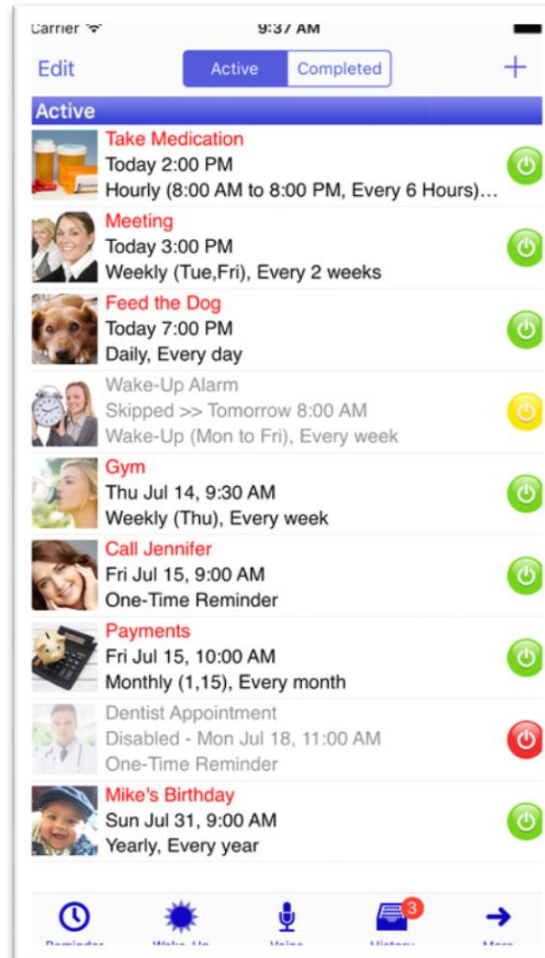


Reminding Technologies

Aida Reminder

(Reminder, Alarm and Voice Reminders. Remind Me App)

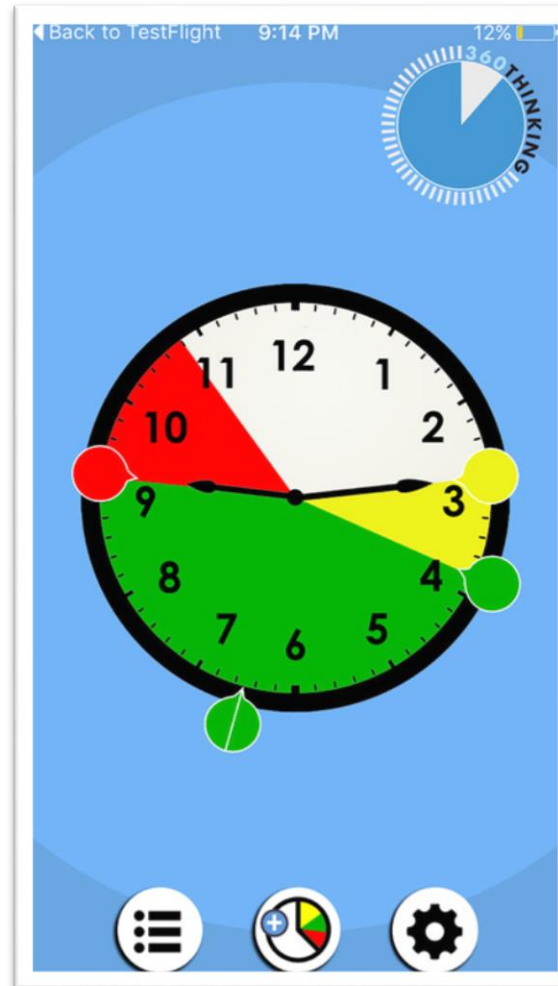
- Record own voice
- Pre-Alarms
- Auto-Snooze
- Images



Reminding Technologies

360 Thinking Time Tracker

- Indicates ready, midpoint and stop points
- Users can compare the planned vs. actual use of time.

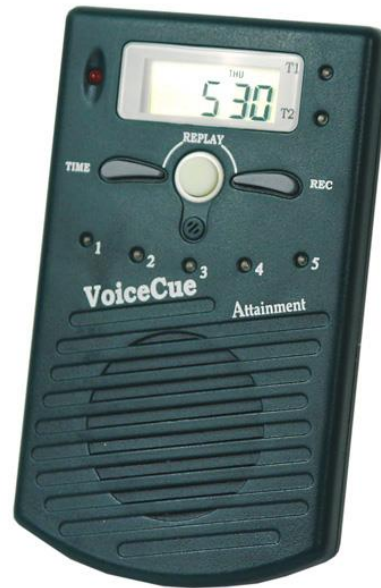


The screenshot shows the 'Slices Settings' screen of the 360 Thinking Time Tracker app. At the top, there is a blue header with 'Back' and 'Slices Settings'. Below this are four colored boxes, each representing a time slice. The first box is yellow and labeled 'Get Ready' with a 'Description' field. The second box is green and labeled 'Start' with a 'Description' field. The third box is green and labeled 'Mid-Point Goal' with a 'Description' field. The fourth box is red and labeled 'End' with a 'Description' field.

Mid-Tech Reminding

VoiceCue

WatchMinder3



Time Timer



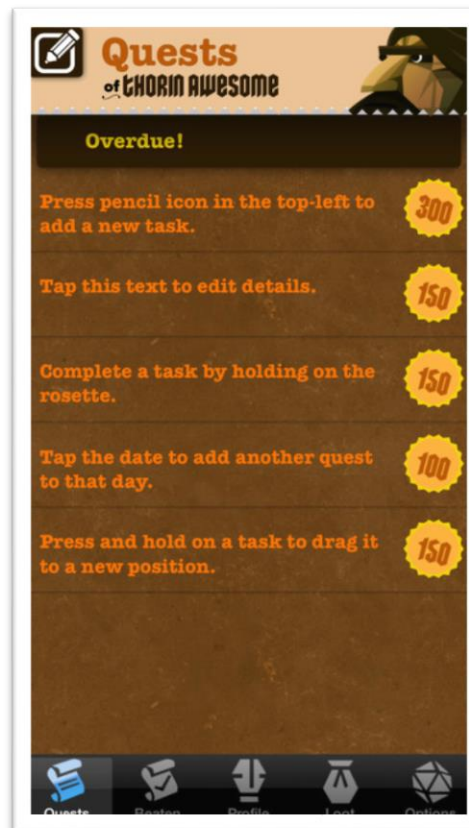
Prompting Technologies

Step-by-step prompts for present task.

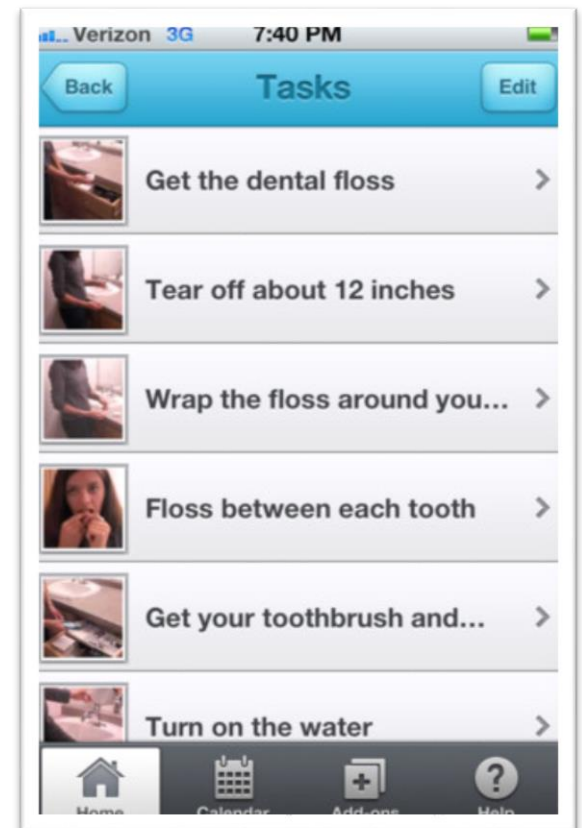
Step-by-step cues
(Next Thing)



Checklists
(EpicWin)



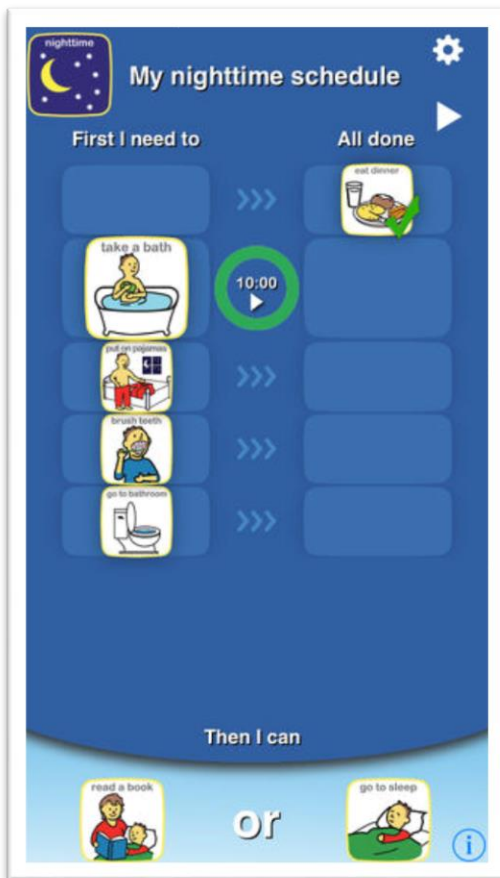
Functional
Planning System



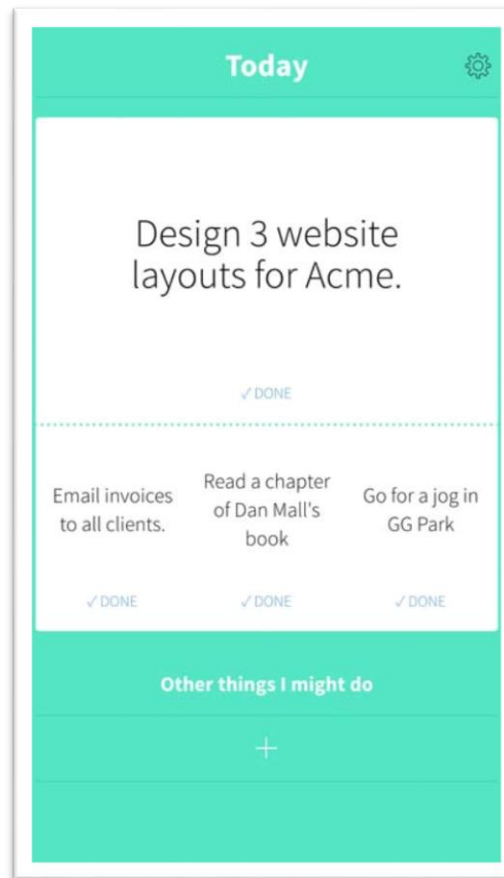
Prompting Technologies

Step-by-step prompts for present task.

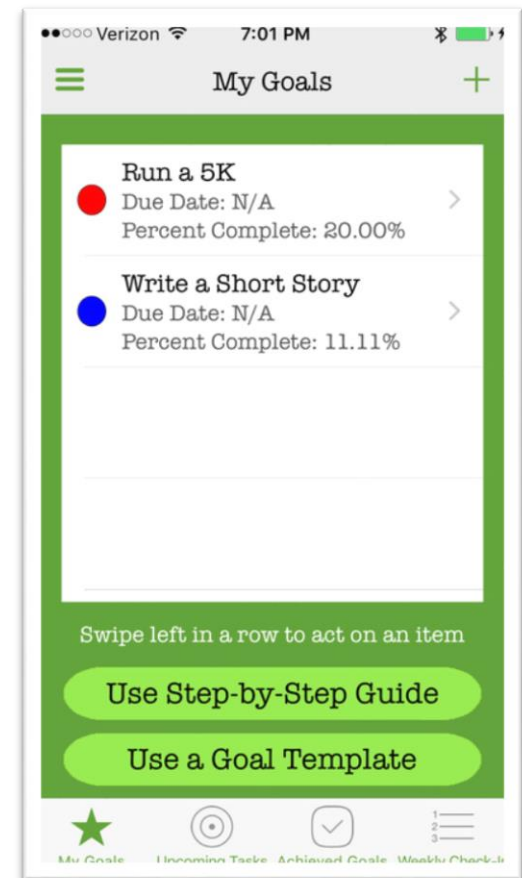
Choiceworks



One Big Thing

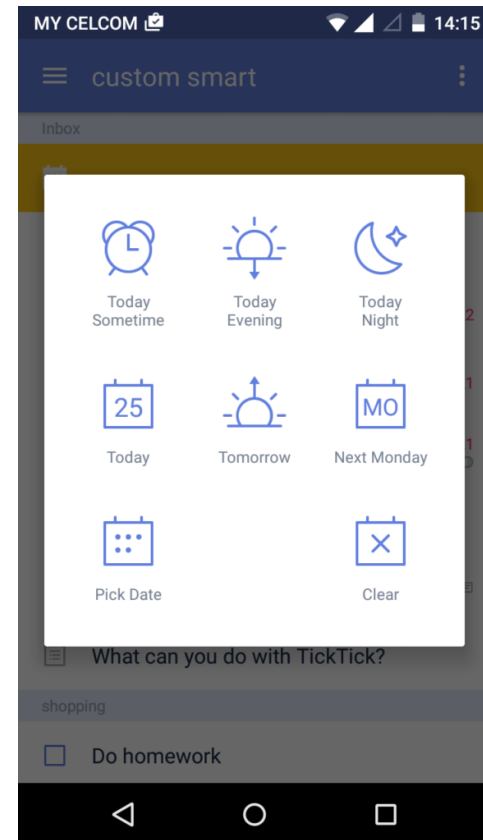
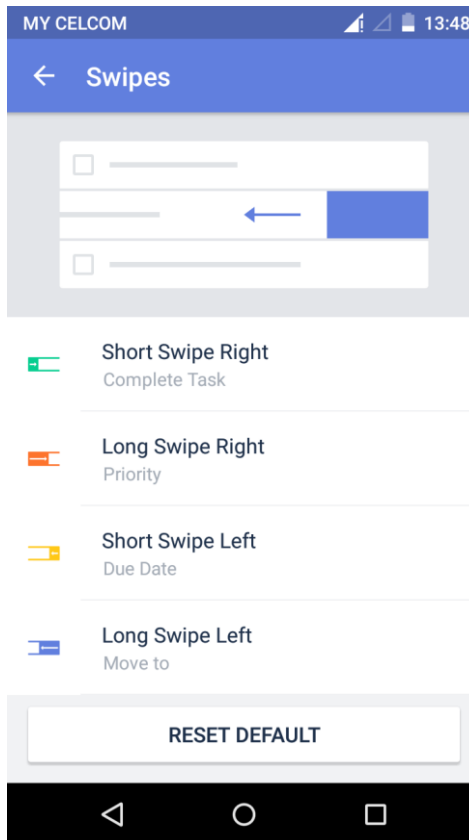
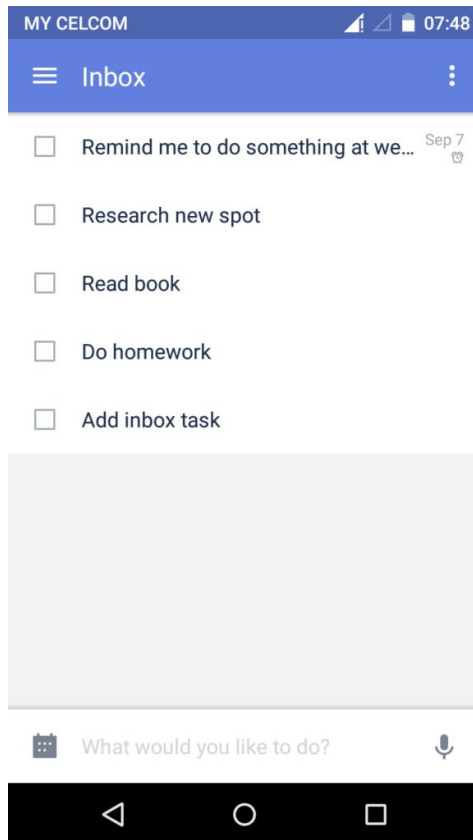


ReachMyGoals



Prompting Technologies

TickTick is a cross-platform app with to-dos, subtasks, and reminders



Prompting Technologies

- Use a pillbox as a visual schedule and reward system
- Place small tokens (coins, stickers, etc.) inside the box
- Try a bead in each compartment...the student can keep a string and see how many they can earn
- Put the reward activity in the last box so it's a surprise!



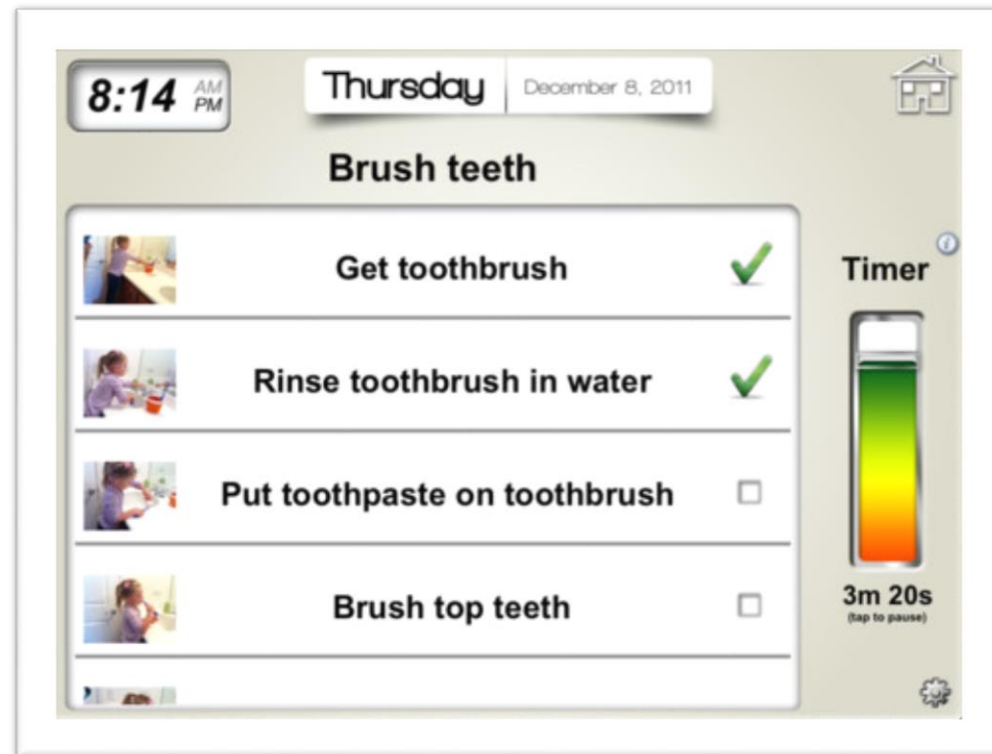
From Shannon of the Speechy Musings Blog
<http://tinyurl.com/y8o2bpcd>

More Prompting Ideas

StepPad Mini



Visual Schedule Planner App



Low-tech solution

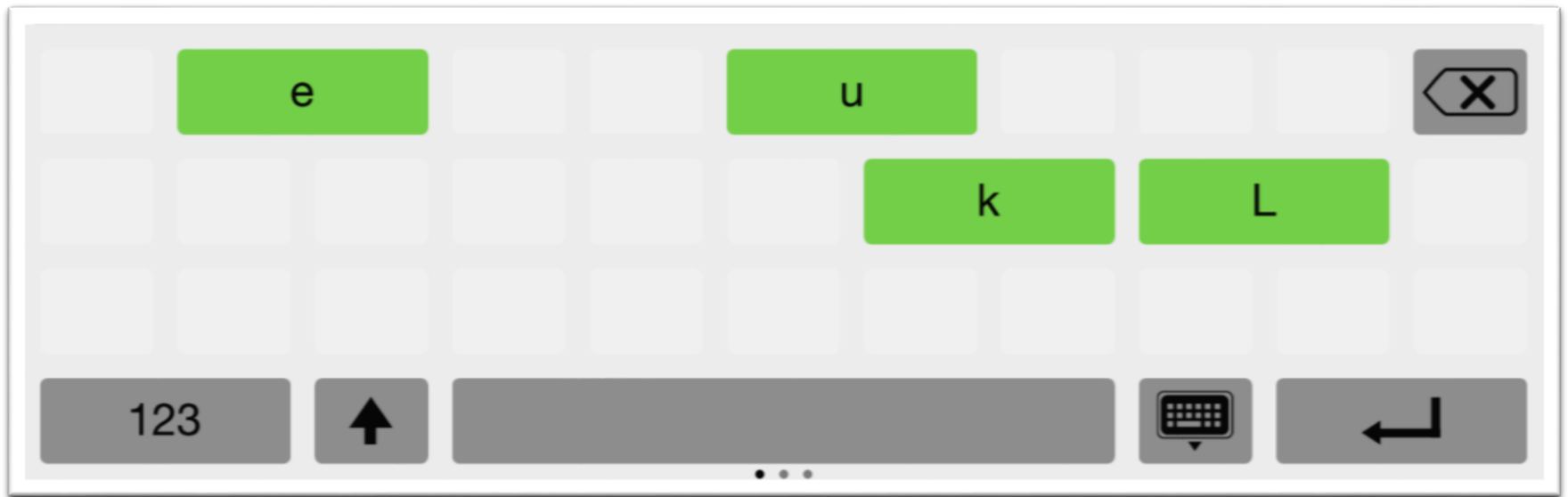
More Prompting Ideas

Brili for works on iOS devices, Andriod devices, and the Pebble watch. It will soon also work in your browser.



Fading Prompting Technologies

Customized keyboard with fading prompts created in the Abilipad App



Create Tutorials on Class Computer




Welcome • Go Pro!

Make it Easy

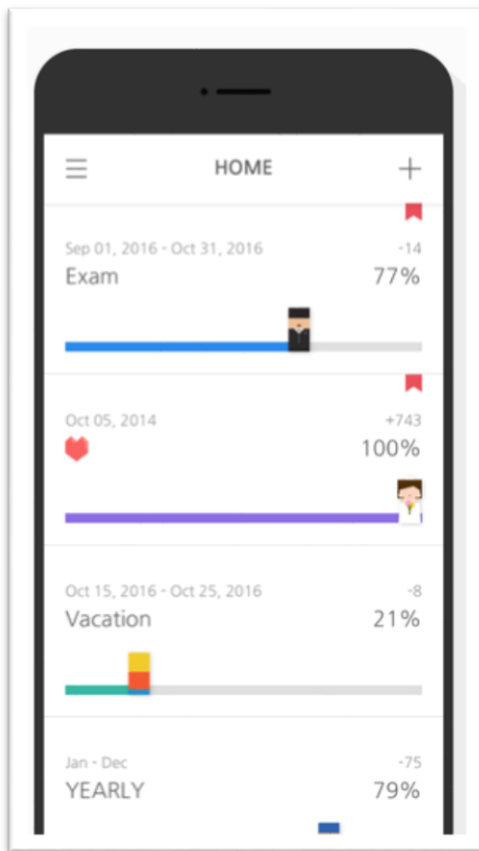
One-click screen capture recording on Windows or Mac computers with no install for FREE!

Just click **Start Recording** to record.

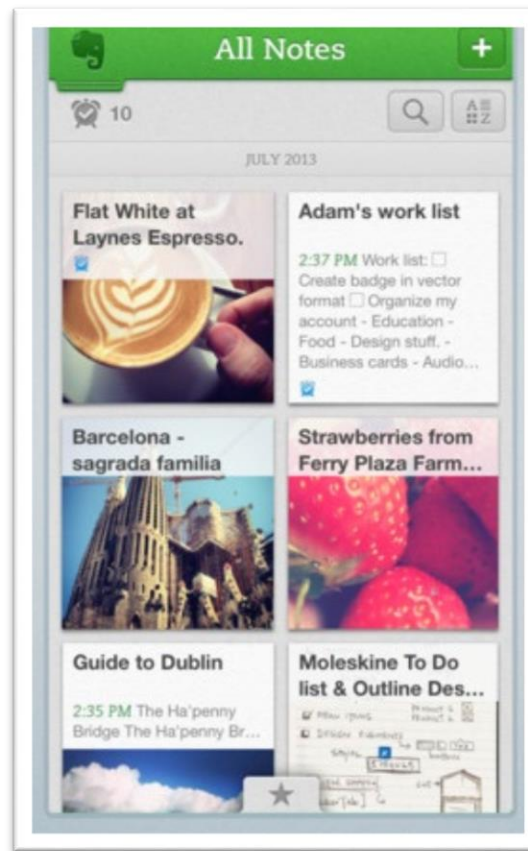
Or you can download an application to launch from your Start menu:  [Download + Install](#)

Storing & Displaying Technologies

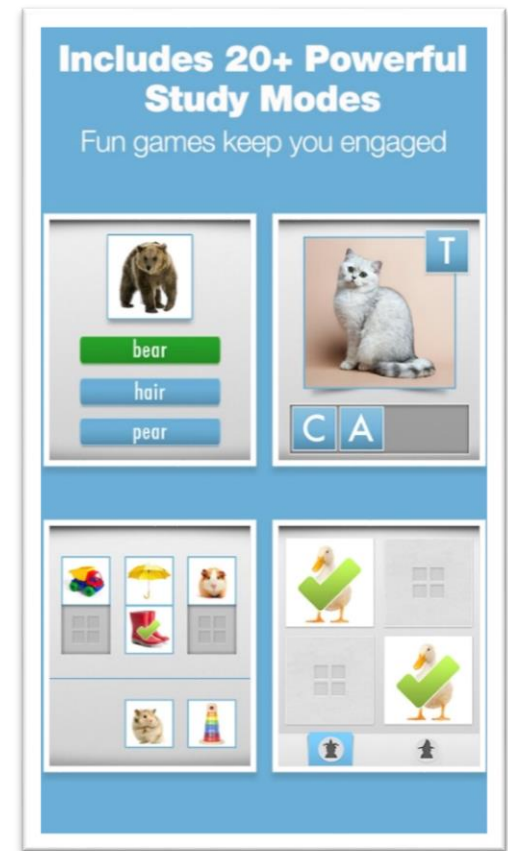
Countdown
(AT - Countdown reminder)



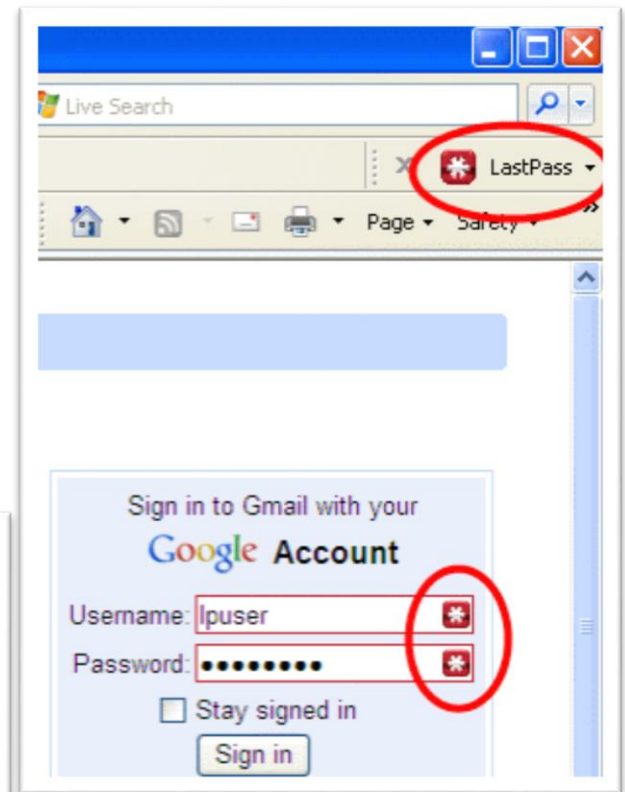
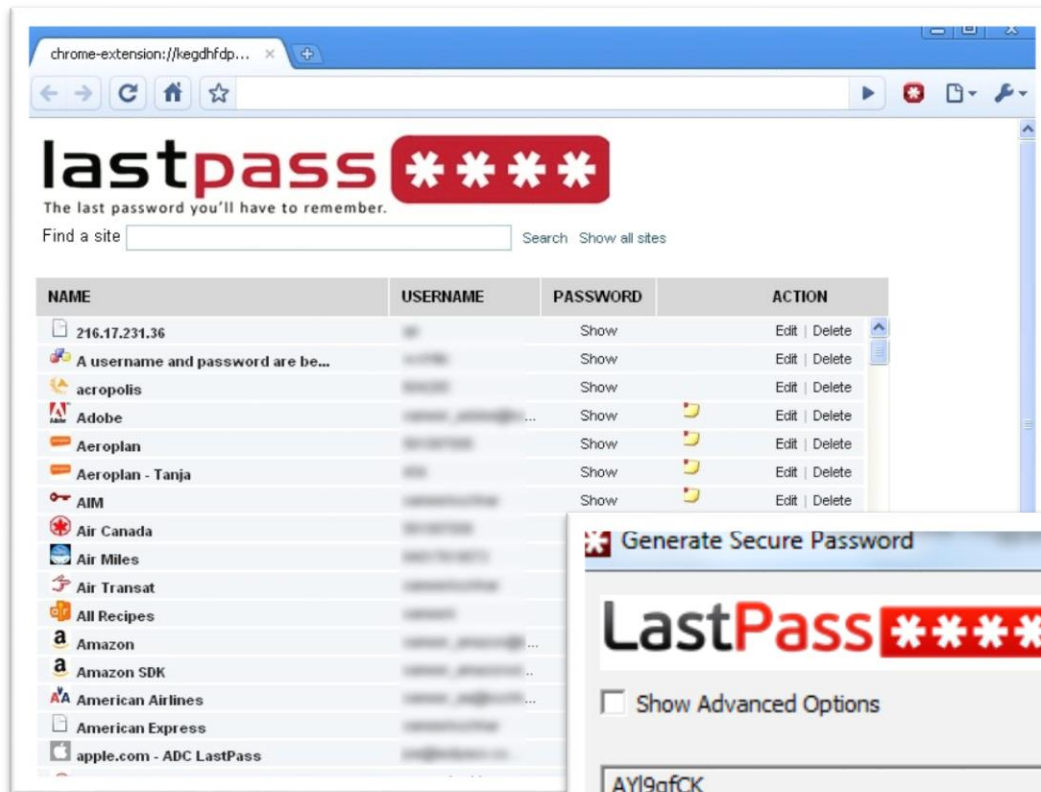
Notes
(Evernote)



Study
(Bitsboard)



Password Management



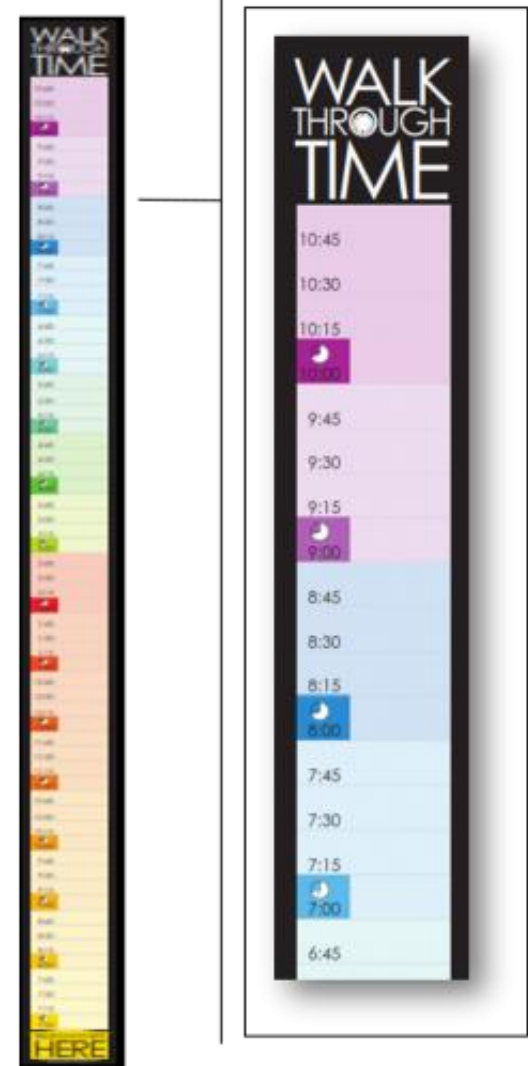
Creating Passwords

- Wizard of Oz
 - ?g&pOzem11
 - Question (?) for the great and powerful (g&p) Oz in the emerald (em) city (11)
- Space System
 - plnts@\$UN*
 - Eis3rdfr0m*

Storing and Displaying iPad Apps

Walk Through Your Day Time Banner

- 1 x 16 feet laminated banner
- Students walk on the banner to see how their day will unfold as they 'walk across the day'.
- One day 7:00 a.m. - 11:00 p.m. with 15 minute time slots



Storing and Displaying iPad Apps

Plan My Day Academic Planner

- Students block their Chill Time, Obligated Time and Productive Time.
- The choices of Important Goal, Must Do, Should Do and Want to Do encourage prioritizing skills
- Time estimation
- To Think About & Coming Up

PLAN MY DAY: Monday, August 20, 2012
Block Schedule Day: _____

CHILL Fun / Entertainment / Errands

	What time is it at?	How long will it last?
American Idol	8:00	60m
Buy new shin guards	?	

OBLIGATED Appointments / Practices / Etc...

	What time is it at?	How long will it last?
Tutor	3	60m
Soccer Practice	5	60m

PRODUCTIVE Homework / Things To Do

CLASS	Materials	Due Date	How long will it last?
English: read of Mice an Men Chap 6 Do novel notes	Books Binder Handouts Notes	Thur	60m
Math: chap 14, pg 62, do probs. 1-7	Books Binder Handouts Notes	Thur	25m
History: Read chap 4 Answer summary questions	Books Binder Handouts Notes	Fri	45m
Spanish: Make flash cards from study guide	Books Binder Handouts Notes	Thur	15m
	Books Binder Handouts Notes		
	Books Binder Handouts Notes		

Tests / Quizzes Today:

Time	Event
7:00	
7:15	
7:30	
7:45	School
8:00	
8:15	
8:30	
8:45	
9:00	
9:15	
9:30	
9:45	
10:00	
10:15	
10:30	
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2:30	
2:45	
3:00	Tutor
3:15	
3:30	Help w/ English
3:45	
4:00	
4:15	Buy Shin Guards
4:30	
4:45	
5:00	Soccer
5:15	
5:30	
5:45	
6:00	
6:15	
6:30	
6:45	
7:00	Math
7:15	
7:30	
7:45	
8:00	Idol
8:15	
8:30	
8:45	
9:00	Spanish
9:15	History
9:30	
9:45	
10:00	Bed!
10:15	
10:30	
10:45	

TO DO / DON'T FORGET Take notes/note cards for history paper

TO THINK ABOUT

COMING UP Spanish Quiz Fri

BeeLine Reader



BeeLine Reader

[About](#)

[Connect](#)

[Our Story](#)

[How It Works](#)

[Get Started](#)

[Team](#)

HOW IT WORKS

Ever wonder why stop lights use colors and not words? It's because the human brain processes color very quickly—much more quickly than it can process words. BeeLine Reader uses the same principle to make reading easier and faster. With BeeLine Reader, the color of the text guides your eye across and between lines, eliminating "line transition errors" (accidentally skipping or repeating lines) and making reading faster, easier and more efficient.

Bright

Dark

Blues

Gray

Off



Web

iOS, Android,
Computer



Kindle

iPad, Computer



PDF

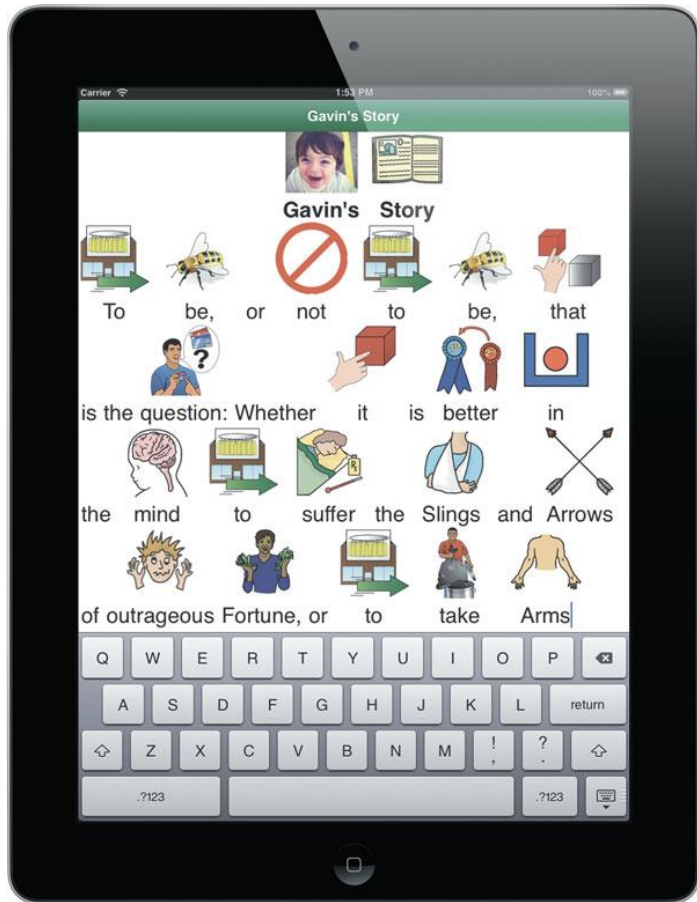
Computer



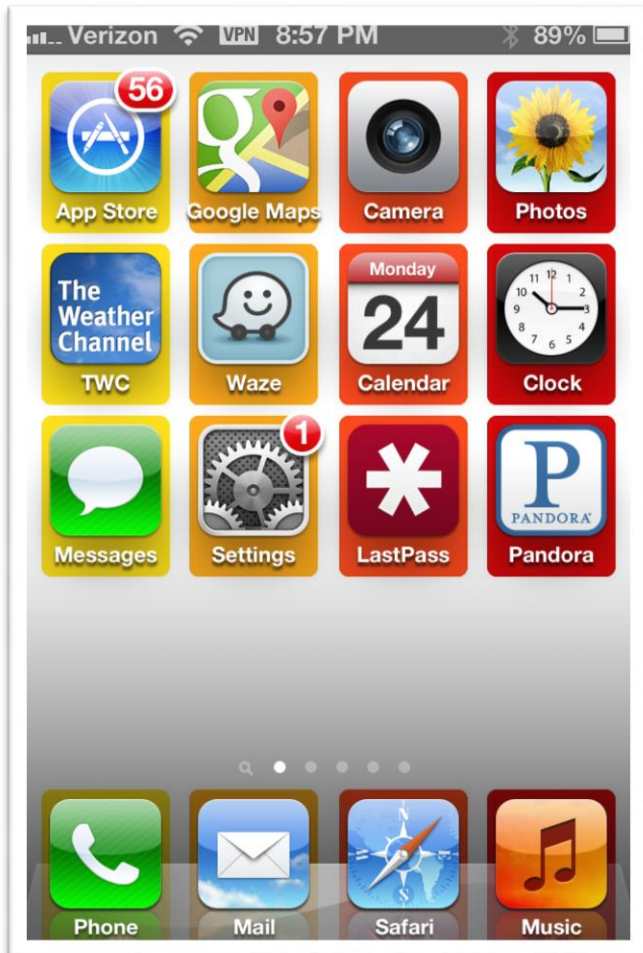
ePub

iPhone, iPad,
Android

SymbolSupport App



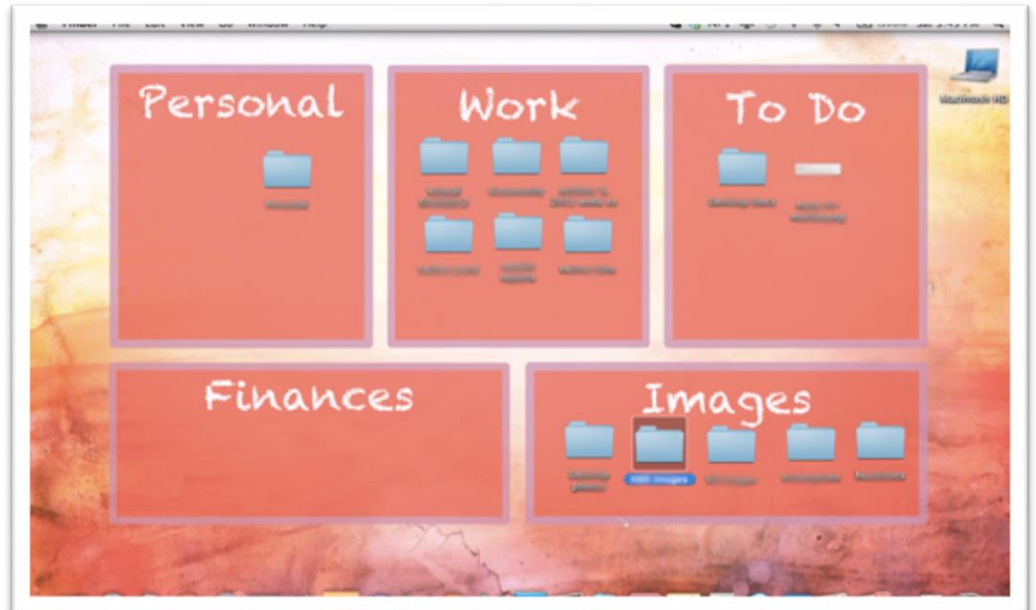
Accessible Wallpaper



<http://www.pinterest.com/sarahpickford/accessible-wallpaper/>



<http://kohnphotography.com/blog/?p=621>



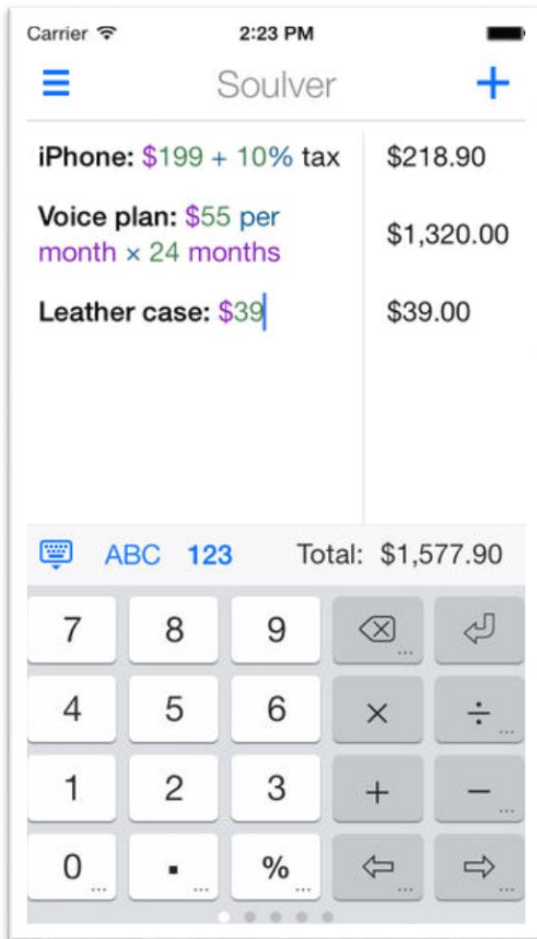
<http://www.linneyville.com>

Livescribe Pen

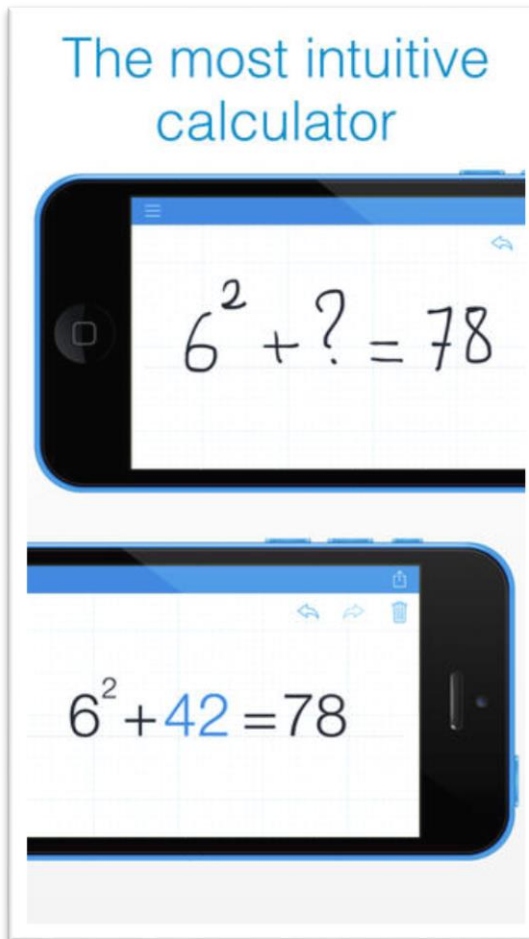


Other Tools

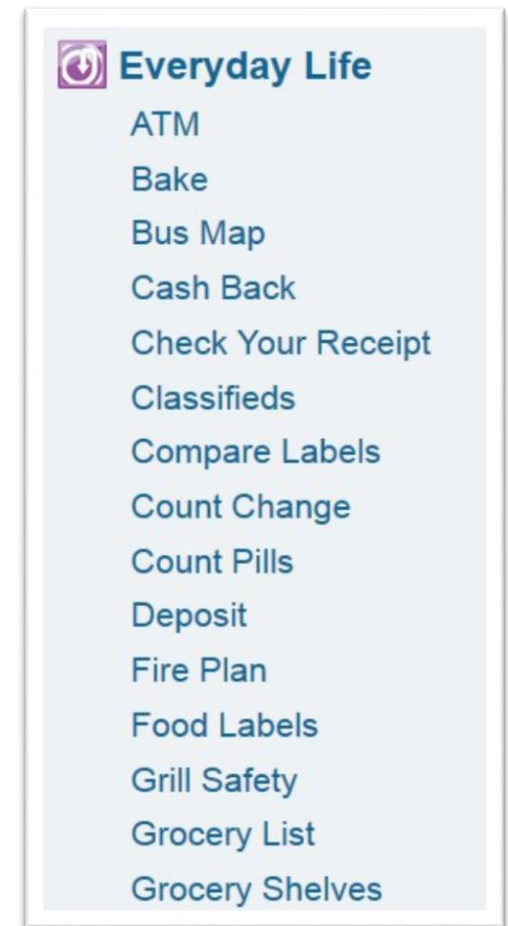
Soulver Calculator



MyScript Calculator

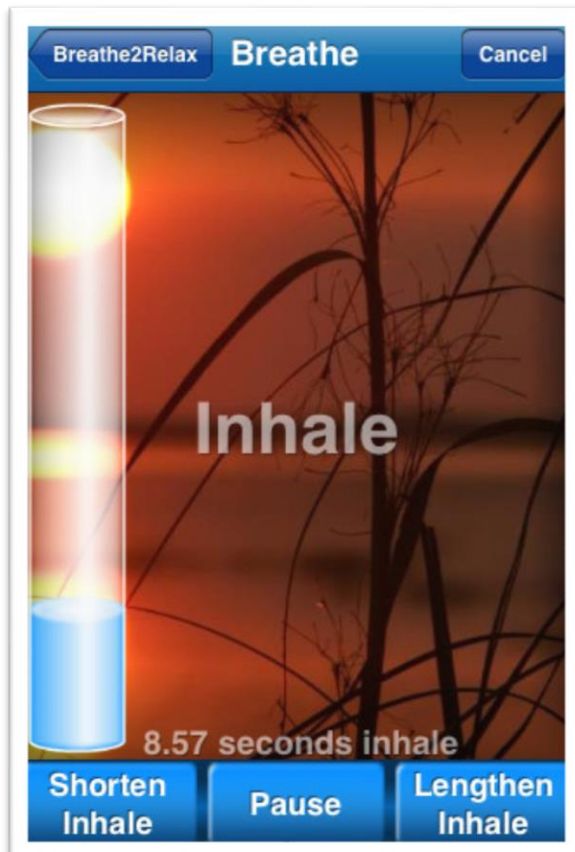


GCFLearnFree.org

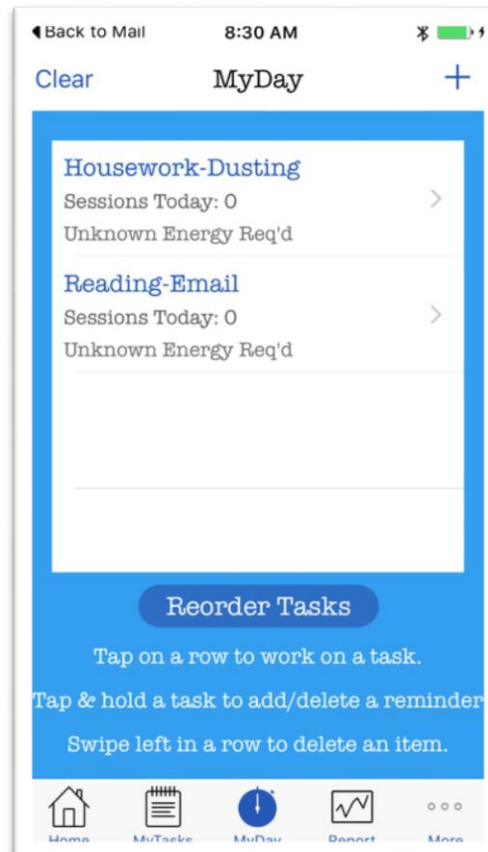


Self-Regulating Technologies

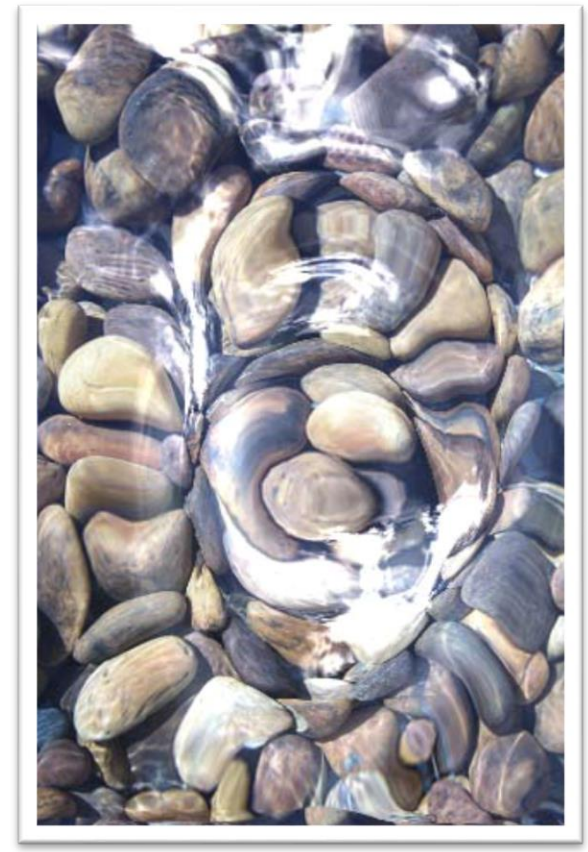
Breathing or Meditation
(Breathe2Relax)



Personal Strategies
(Pace My Day)



Sensory-Based
(Fluid)

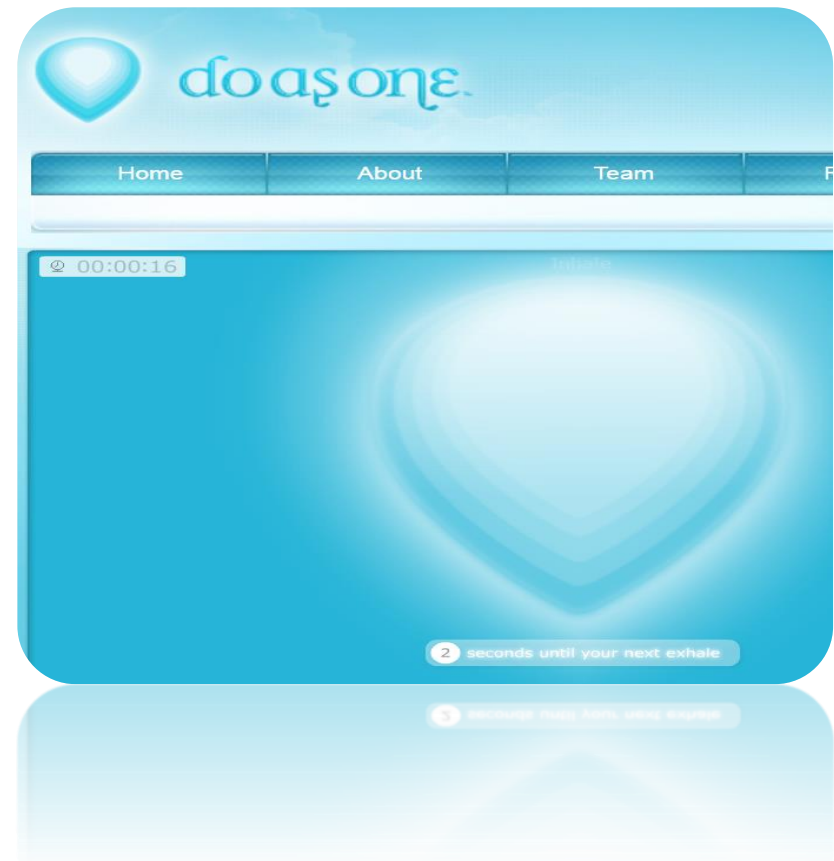


Self-Regulating Technologies

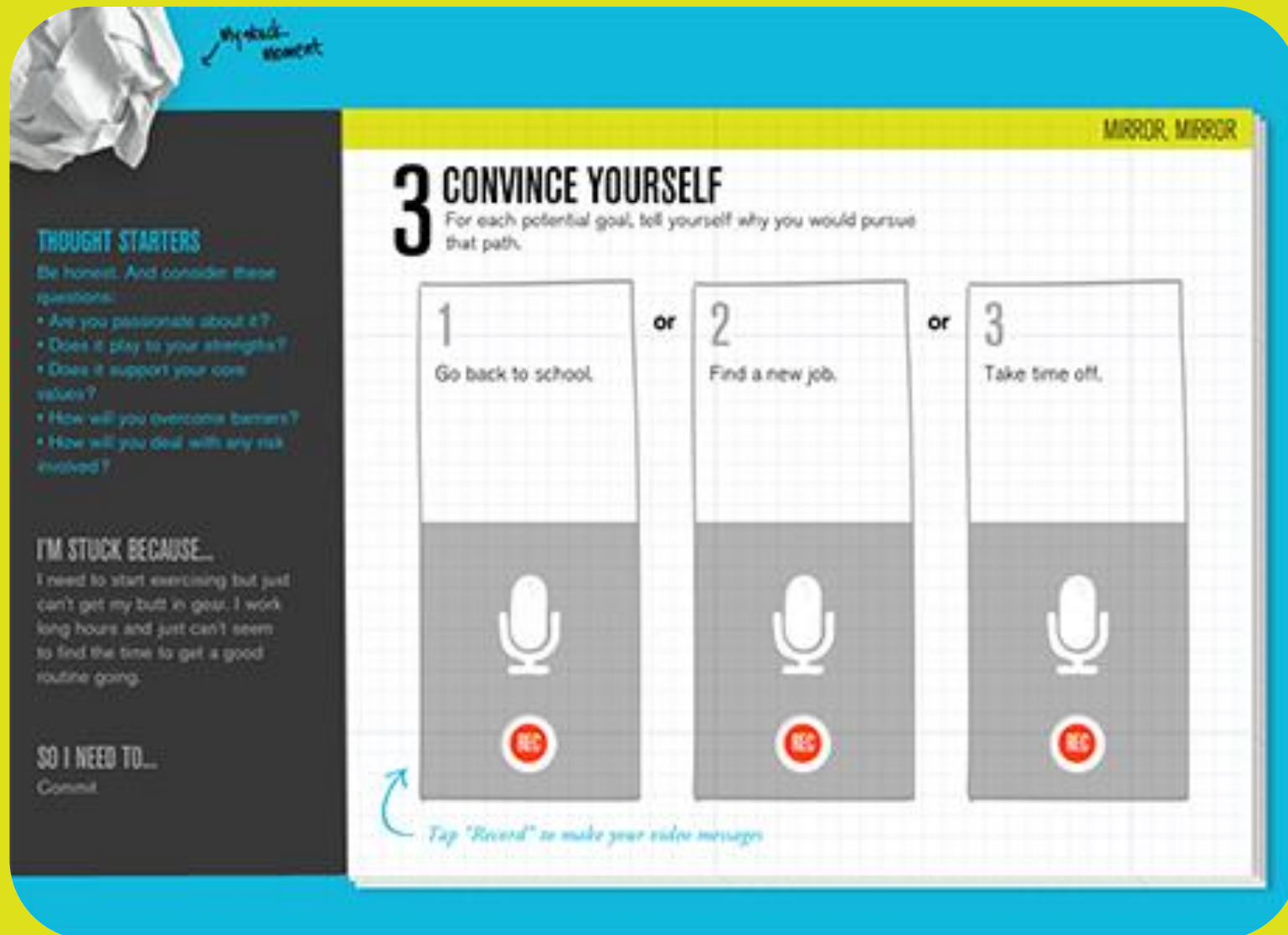
Yoga Studio app



Doasone.com



Unstuck



3 Components of Independent Use

Initiation

Student retrieves the device when it is required.

Student displays awareness of the device's purpose.

Operation

Student is able to perform basic device functions.

Student displays increasing skill levels.

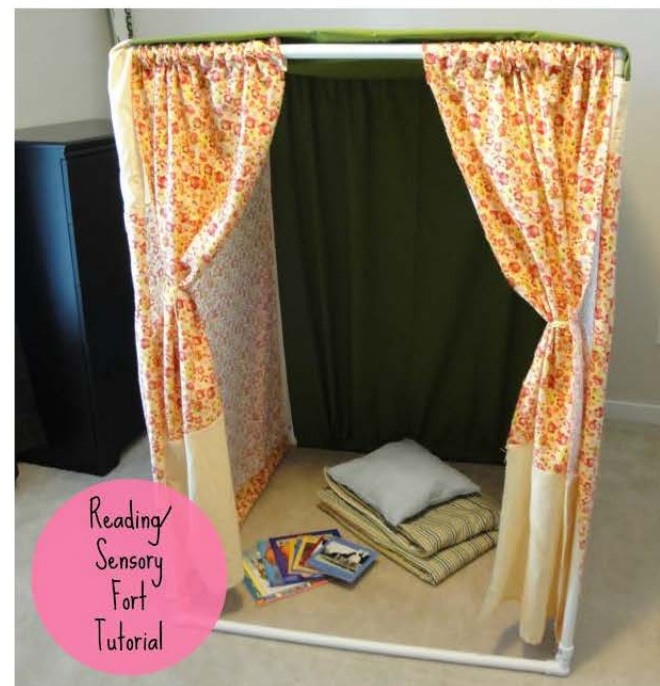
Management

Student is tasked with caring for the device.

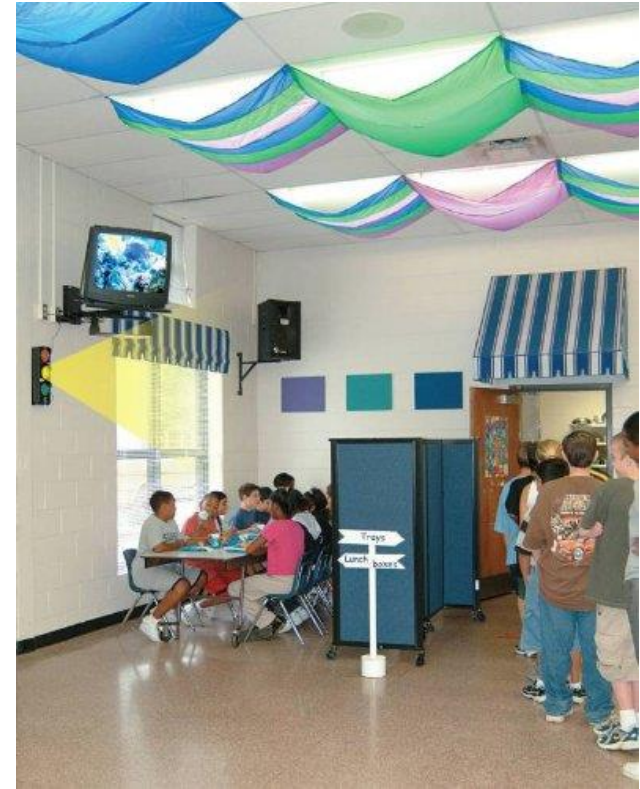
Student accepts responsibility and ownership.

Environmental Modifications





Light Filters





Questions?

You can view the presentation file
and other resources by visiting:

<http://tinyurl.com/Summer-TBI-2017>

Or contact Sarah at:

spickford@braininjurysvcs.org