Assistive Technology Strategies for Students with TBI

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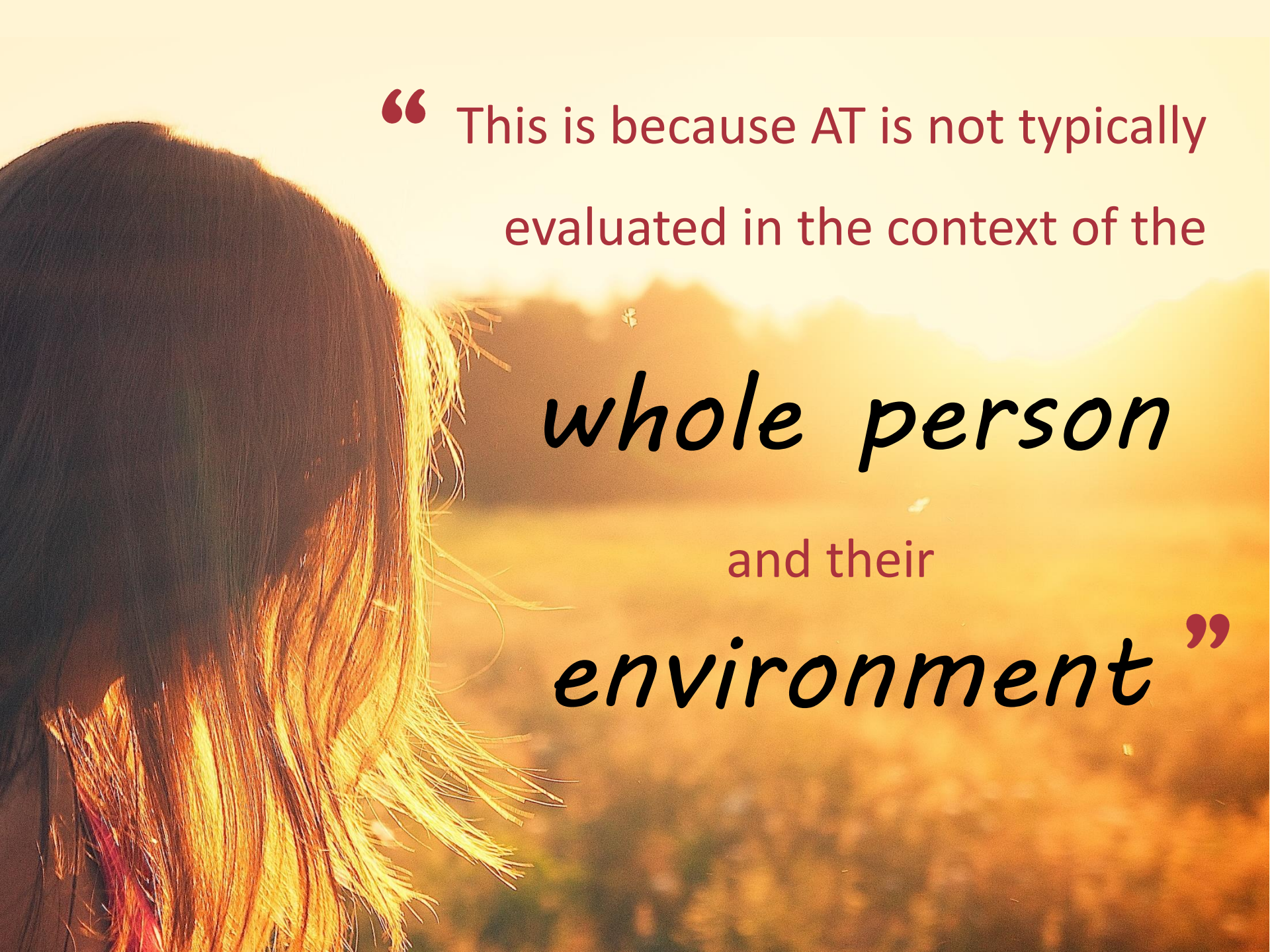Brain Injury Services

For people with
cognitive disabilities

90%

of devices are

DISCARDED

Scherer, M.J. (2005)

"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 <u>exceptions</u> and analyze for ideas

- Encourage creative problem solving

- Identify small actions to take and monitor

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

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
YET

Assistive Technology for Cognition

- Types of AT for cognition with examples

- Three components of independent use

- Environmental modifications

Alerting

Reminding
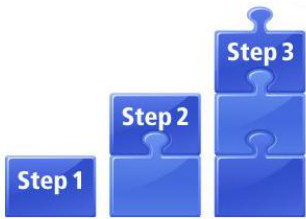
Prompting

Storing and Displaying

Self-Regulating

Alerting Technologies

Direct attention to internal or external stimuli

Drowsiness Alert
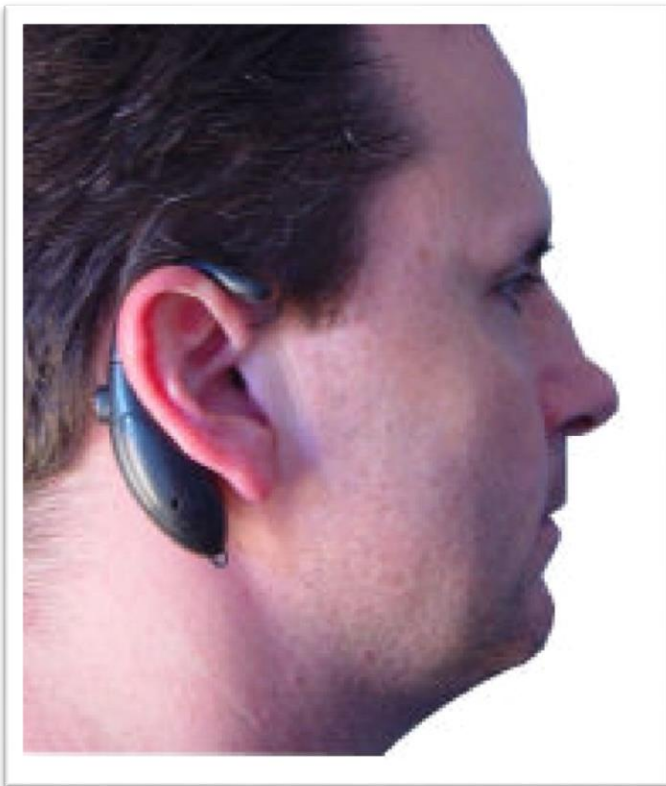
Spell Check
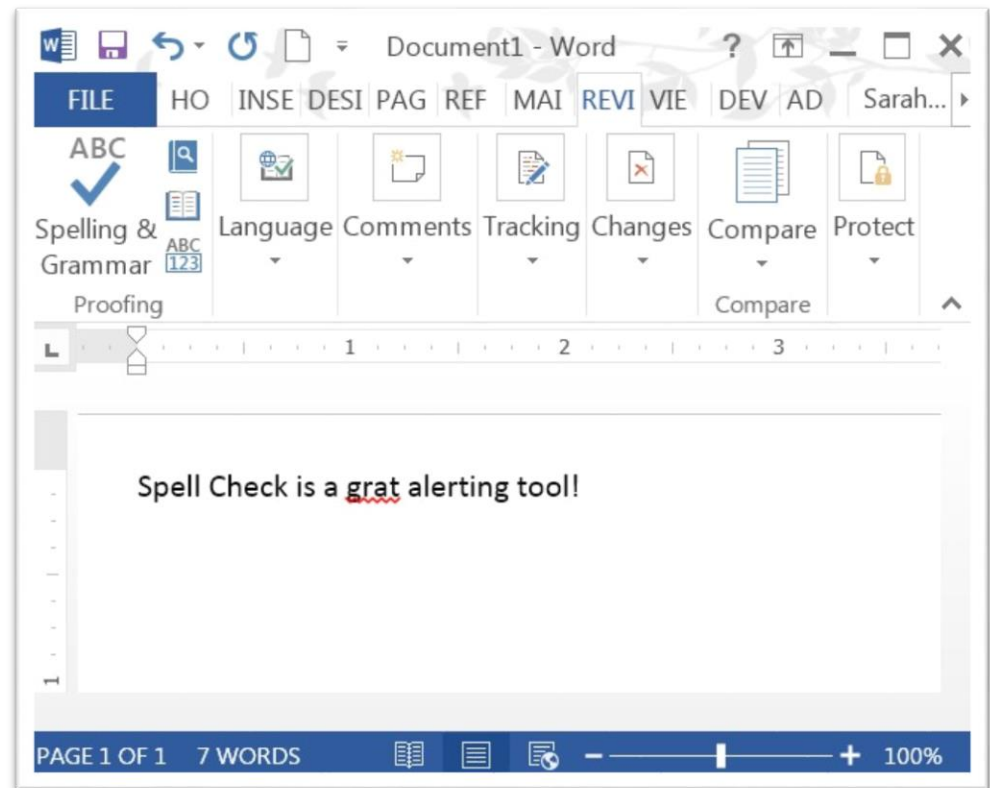
Mid-Tech Alerting

MotivAider

Vibrating Pager
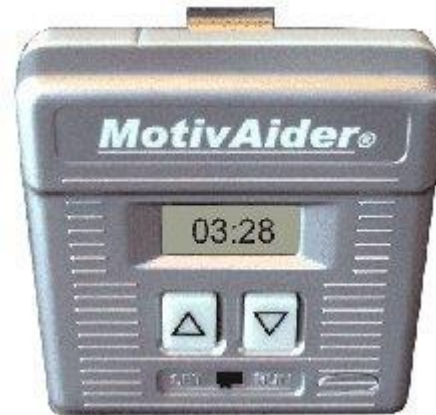
RE-vibe

Reminding Technologies

Time-dependent reminders to cue action.
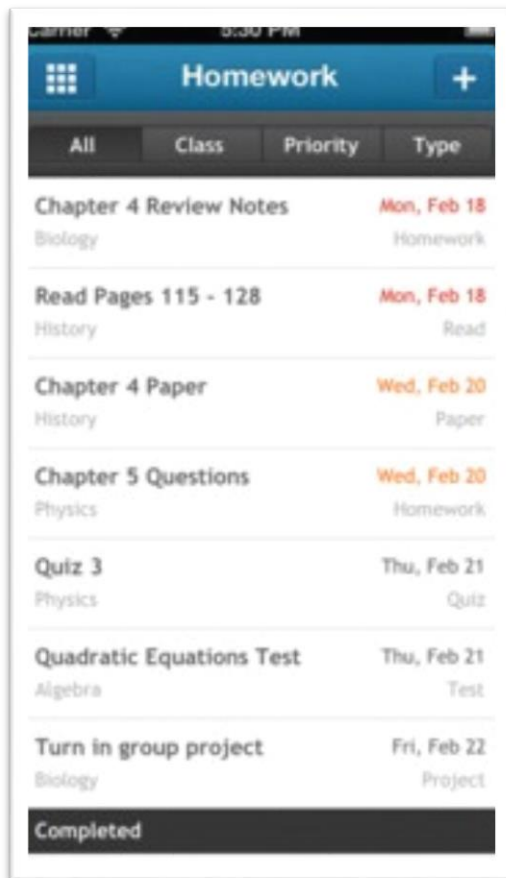
MyHomework
My Study Life
Pillboxie
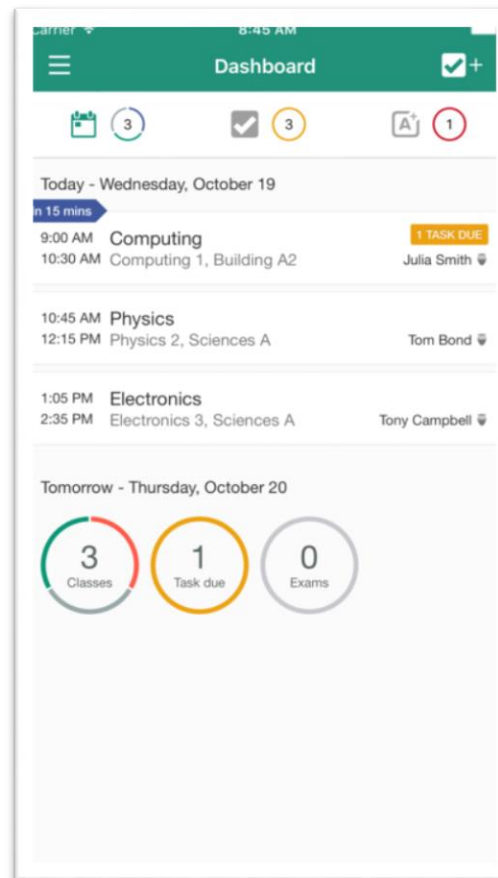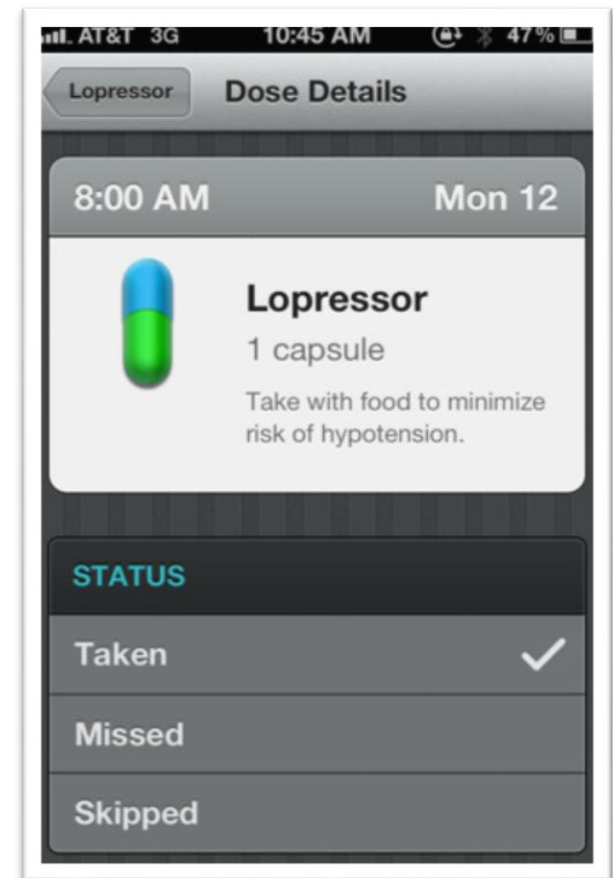
Reminding Technologies

Aida Reminder

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

- Record own voice

- Pre-Alarms

- Auto-Snooze

- Images
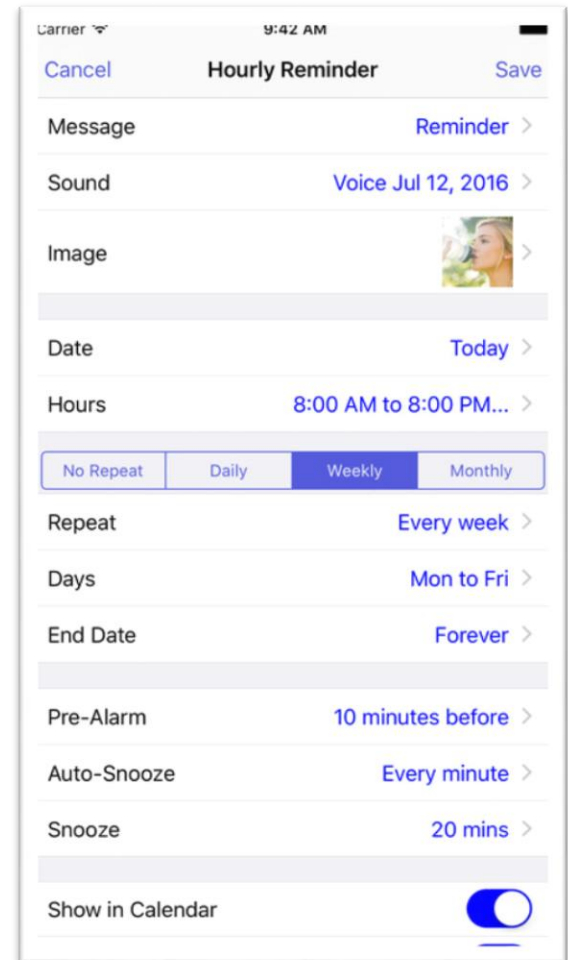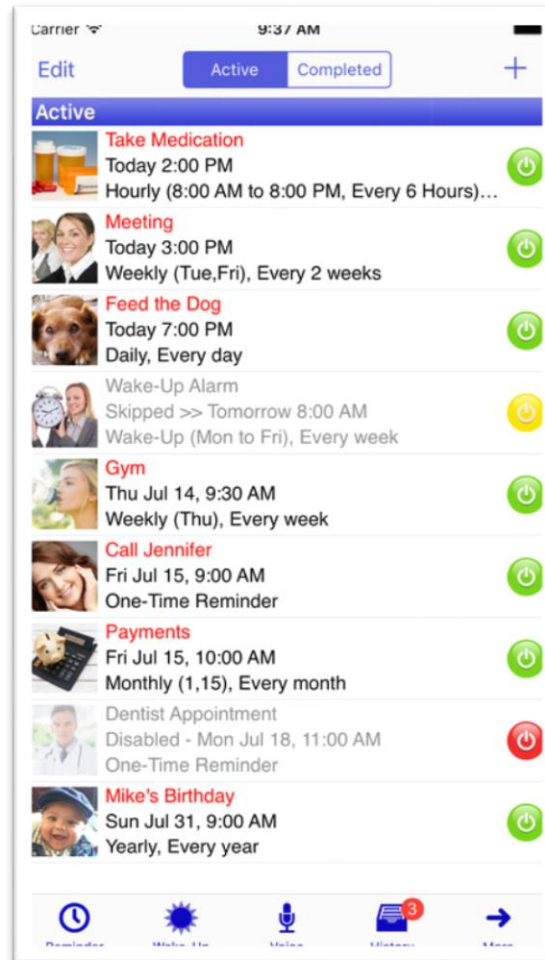
Reminding Technologies

360 Thinking Time Tracker

- Indicates ready, midpoint and stop points

- Users can compare the planned vs. actual use of time.
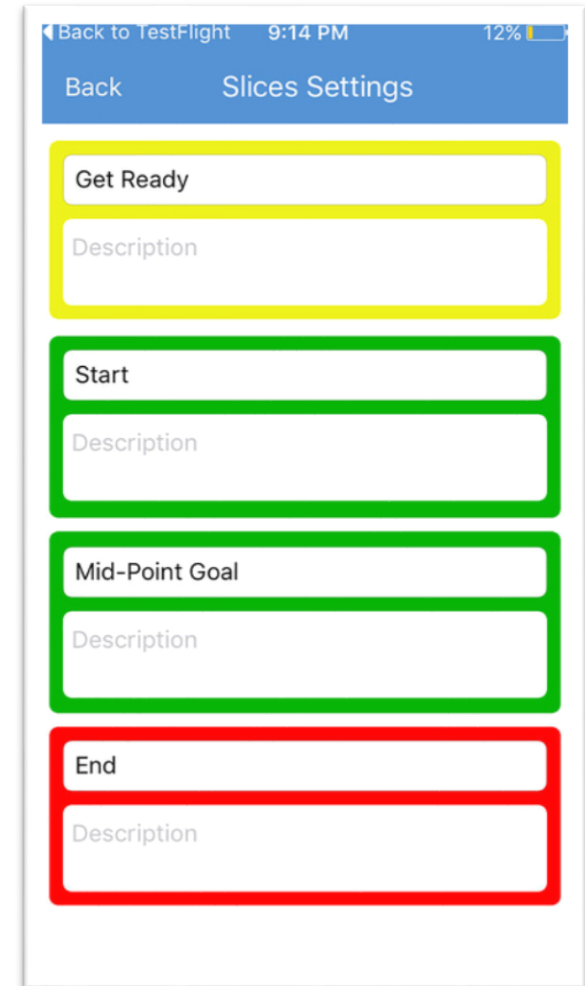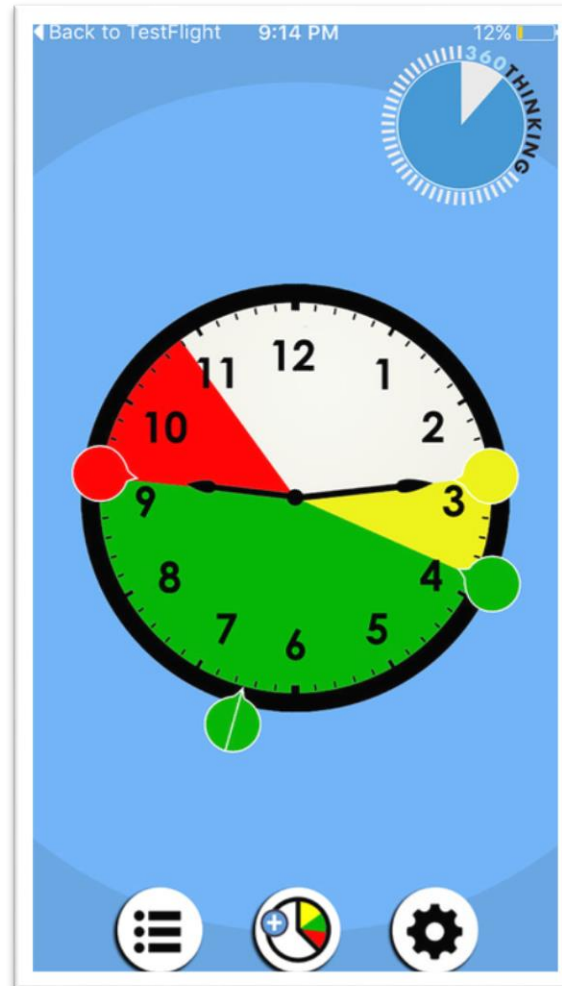
Mid-Tech Reminding

VoiceCue

WatchMinder3

Time Timer

Prompting Technologies

Step-by-step prompts for present task.

Step-by-step cues
(Next Thing)

Checklists
(EpicWin)
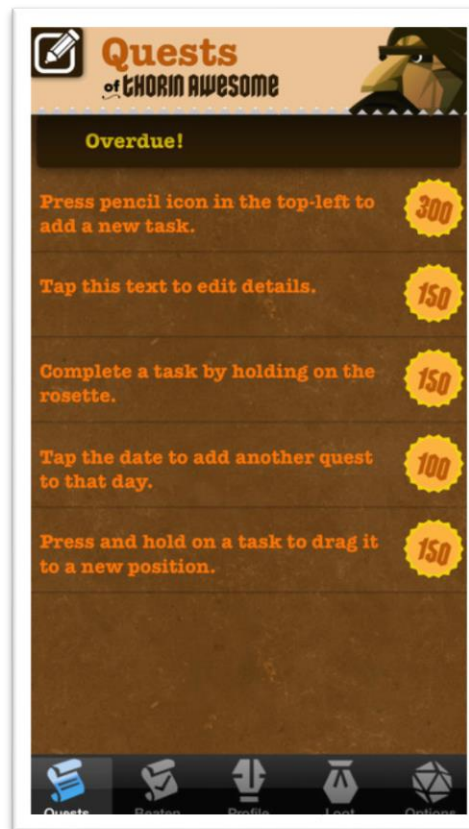
Functional
Planning System
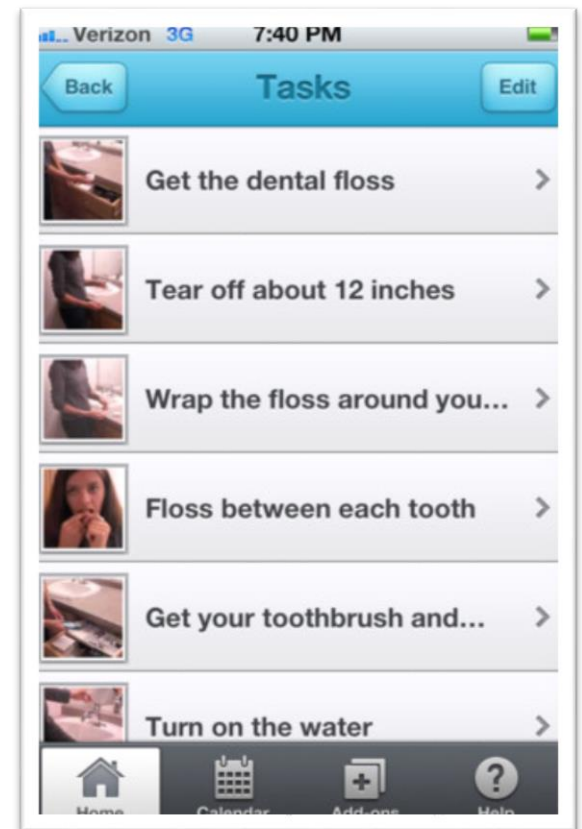
Prompting Technologies

Step-by-step prompts for present task.

Choiceworks
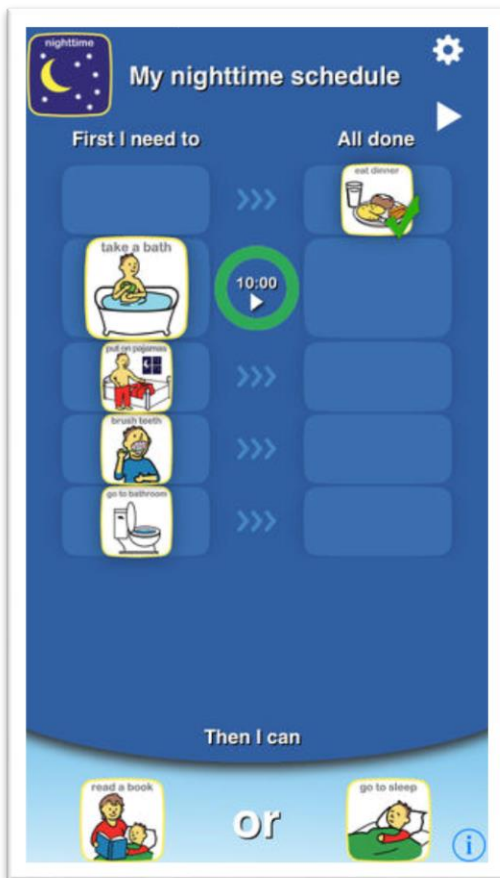
One Big Thing
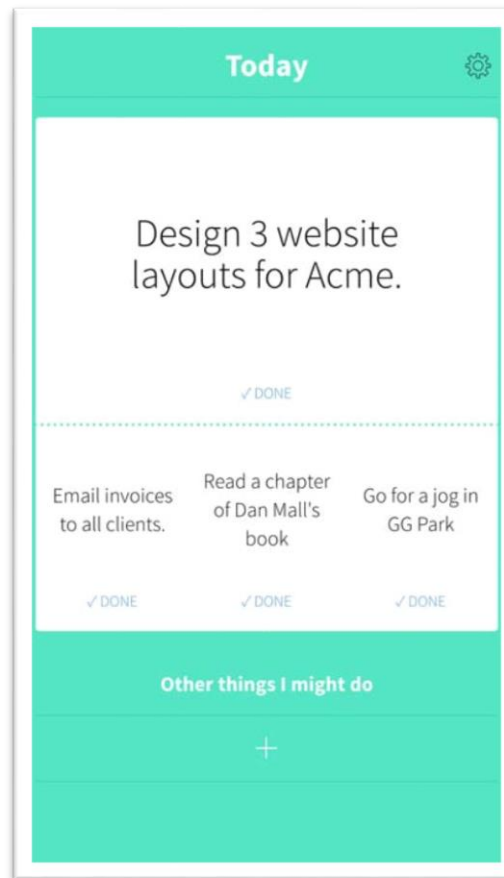
ReachMyGoals
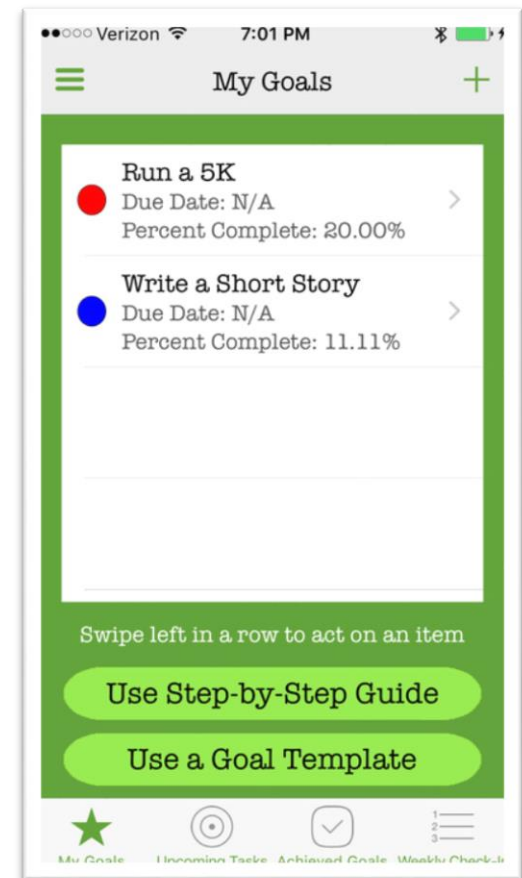
Prompting Technologies

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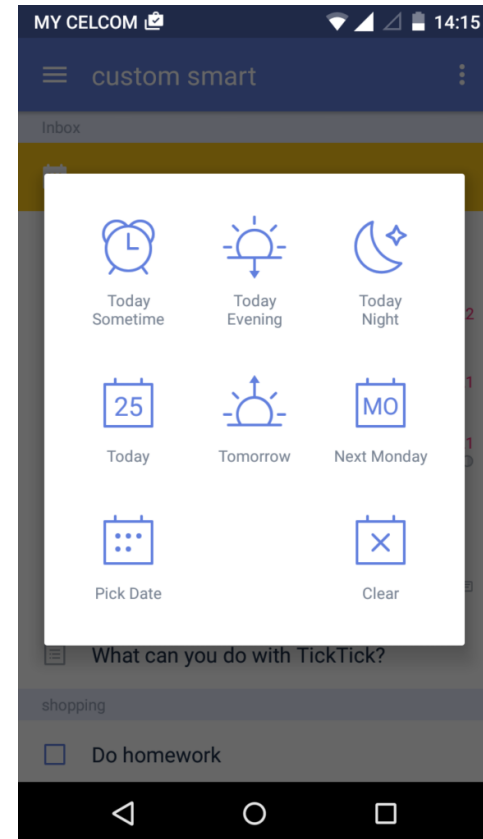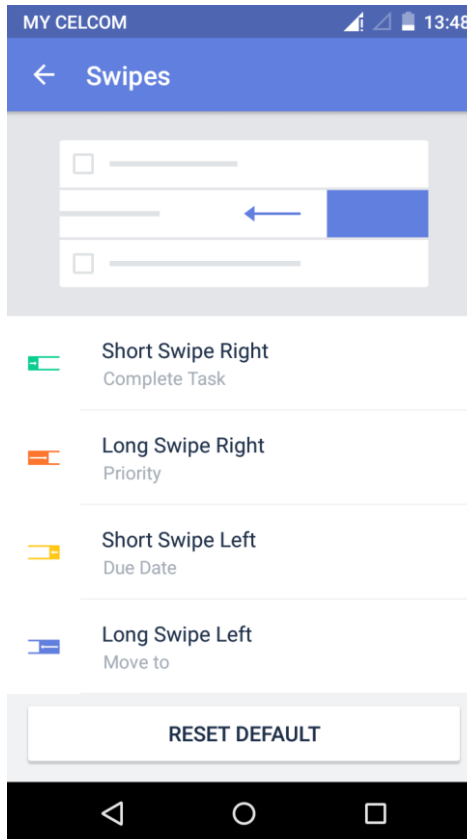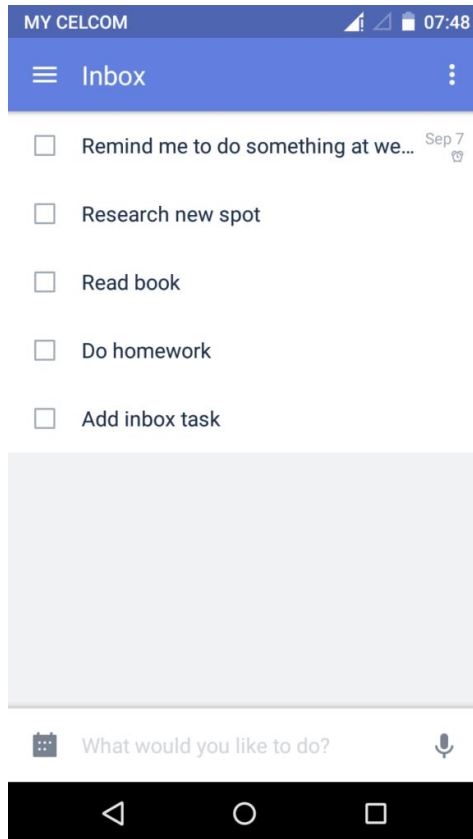
Prompting Technologies

- 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
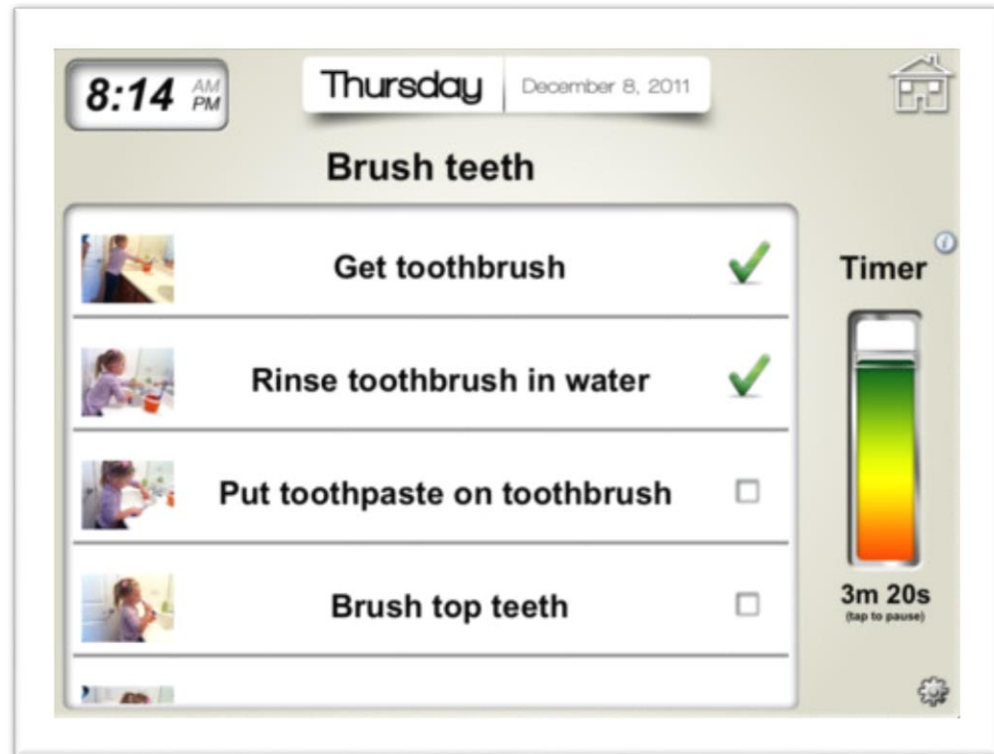
Low-tech solution

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
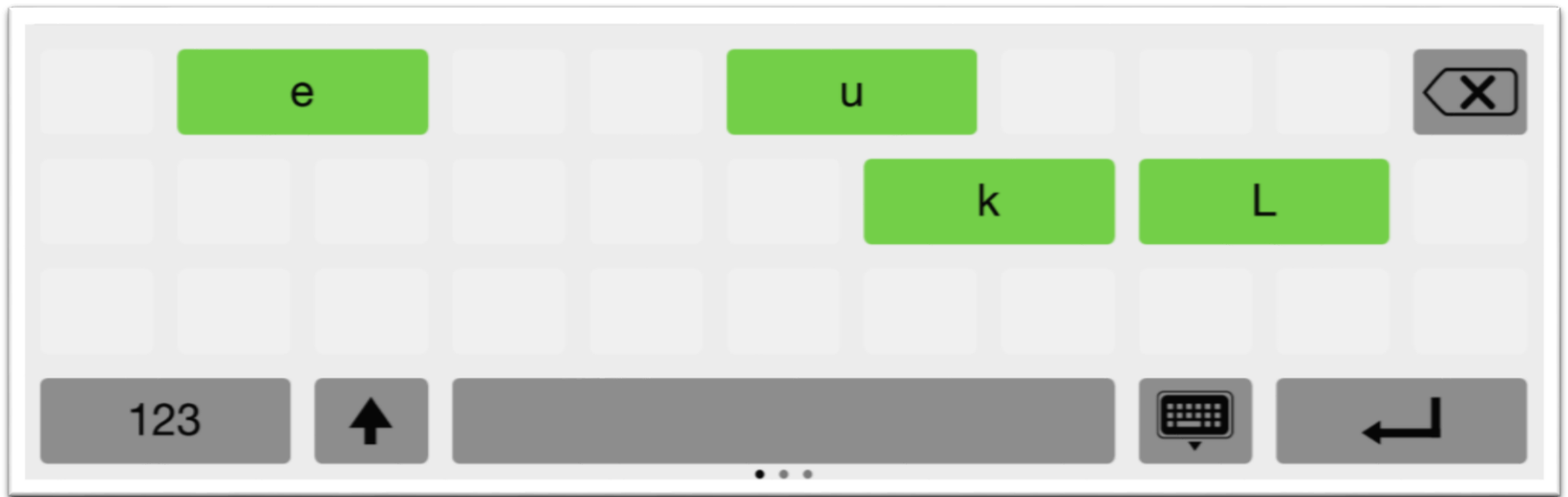
Create Tutorials on Class Computer

Storing & Displaying Technologies

Countdown
(AT - Countdown reminder)
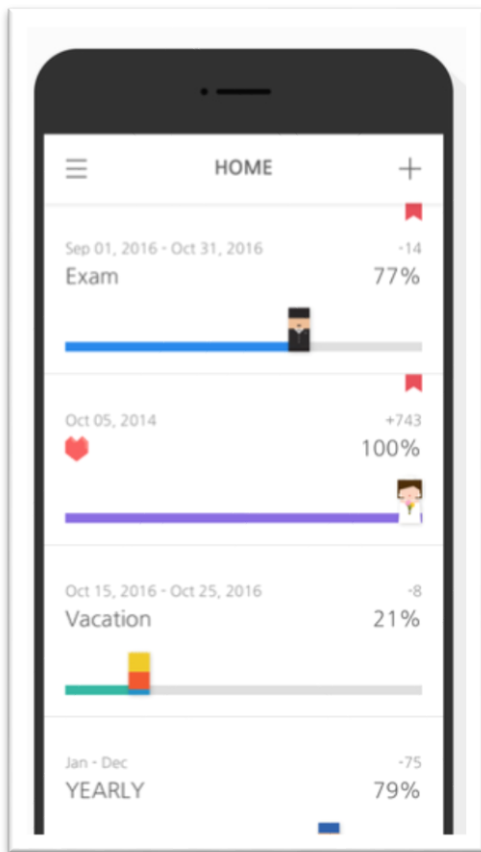
Notes
(Evernote)
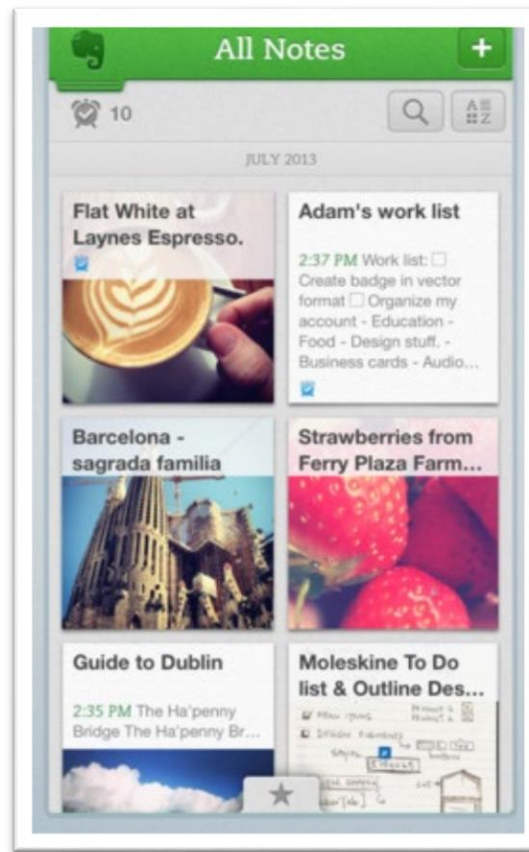
Study
(Bitsboard)

Password Management
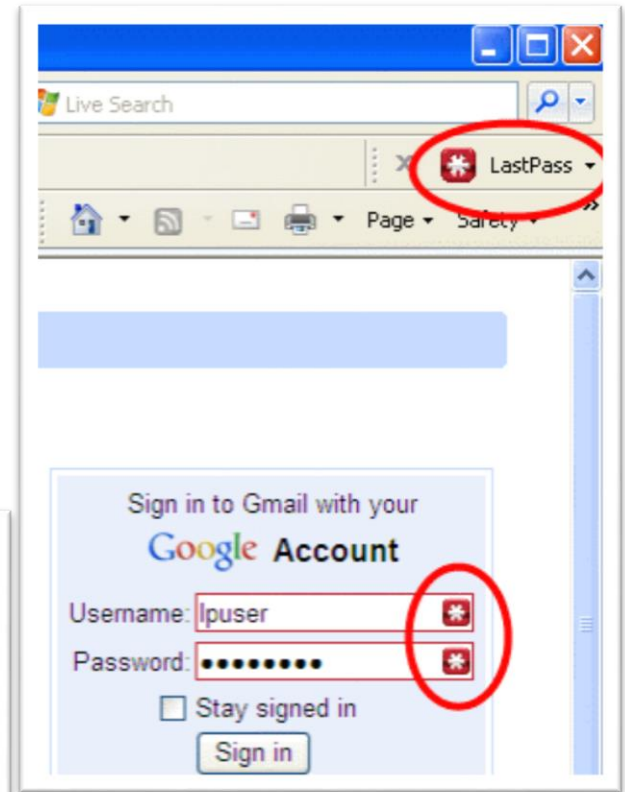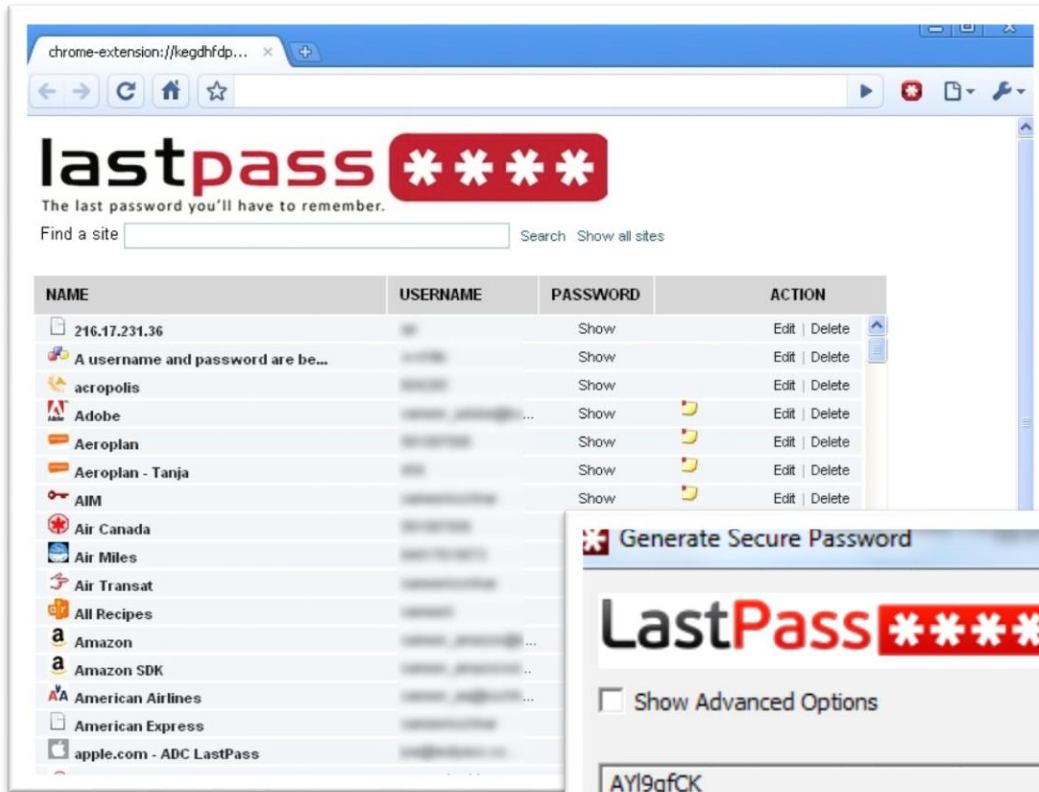
Creating Passwords

- 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
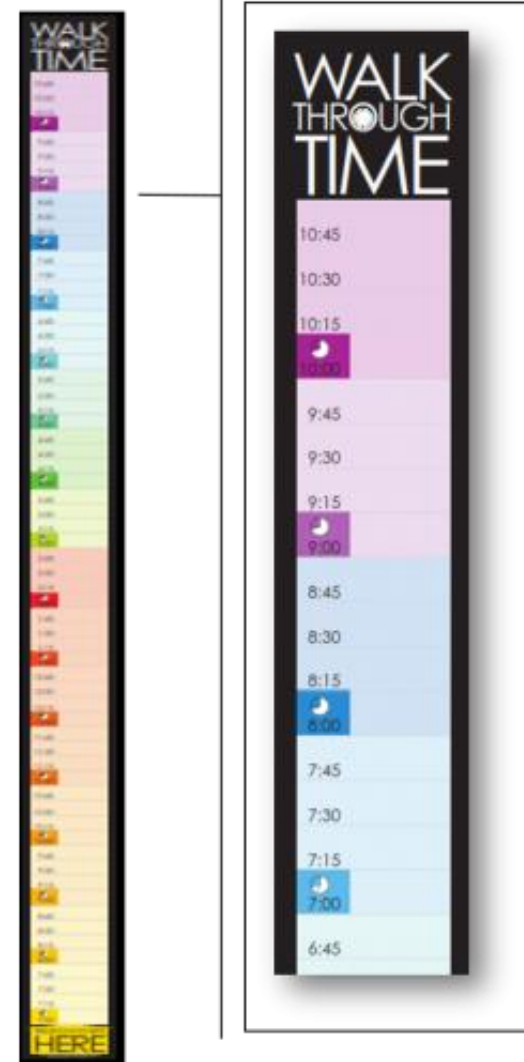
Storing and Displaying iPad Apps

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

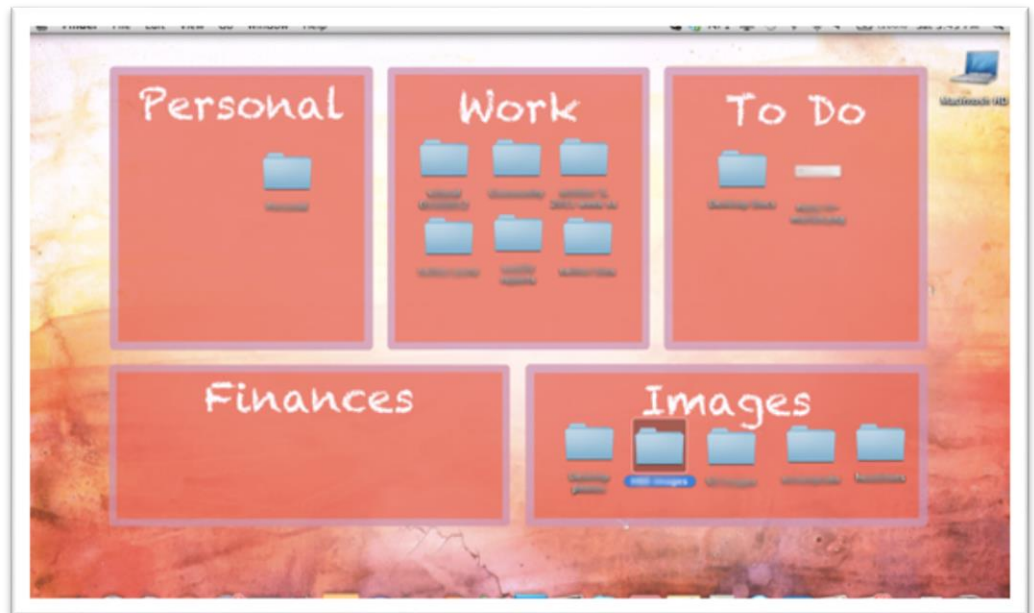# BeeLine Reader

SymbolSupport App
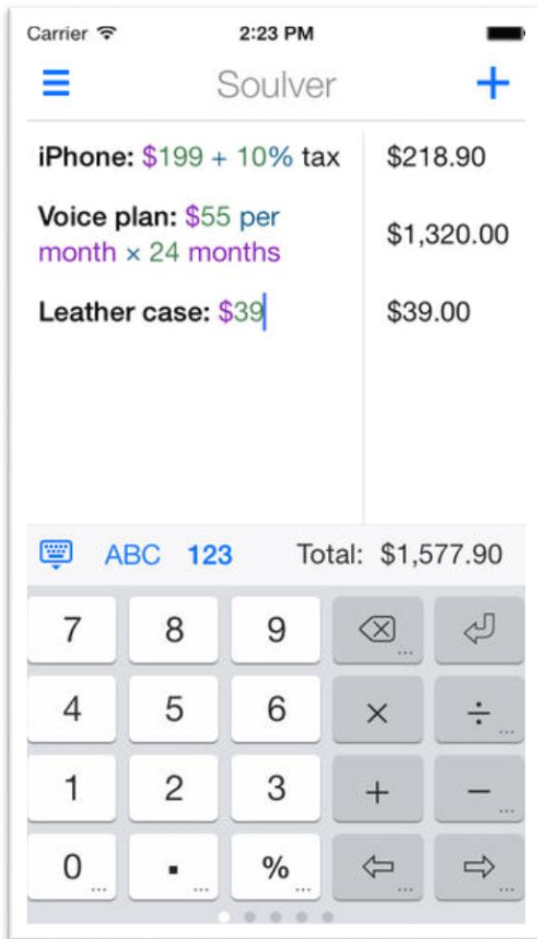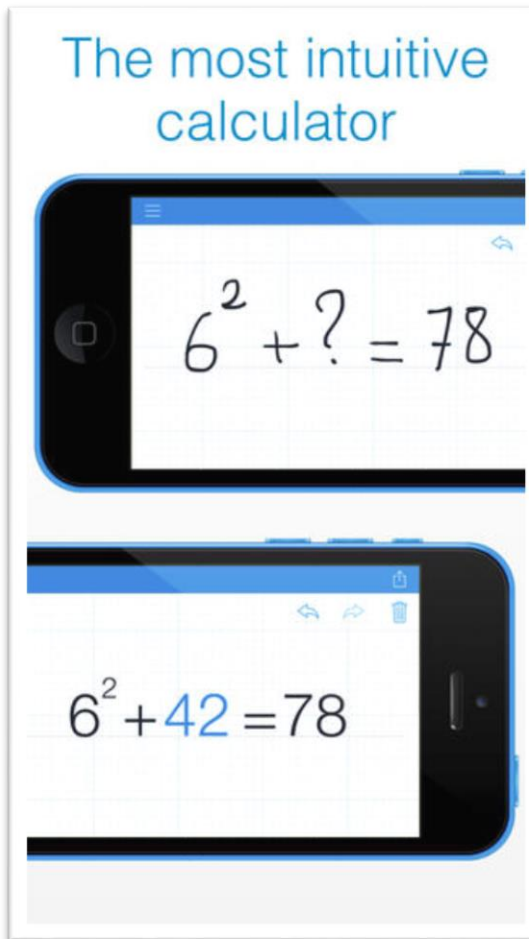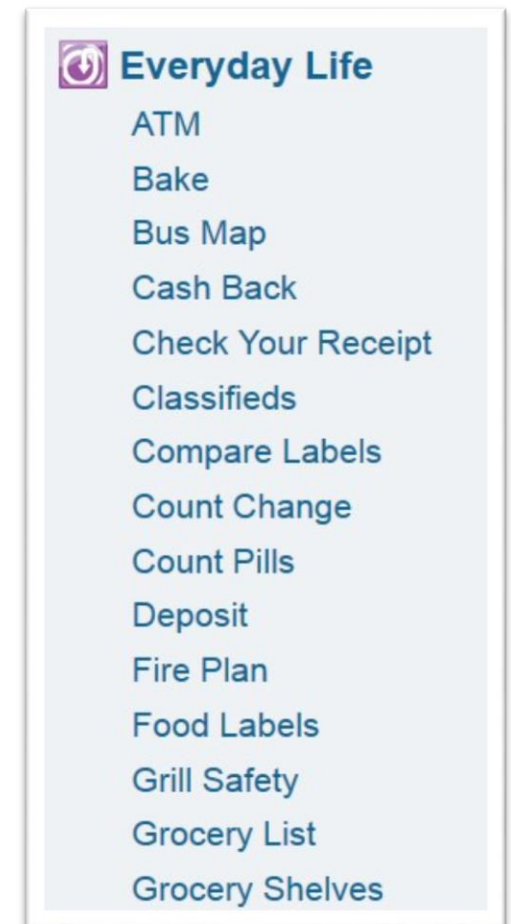
Accessible Wallpaper
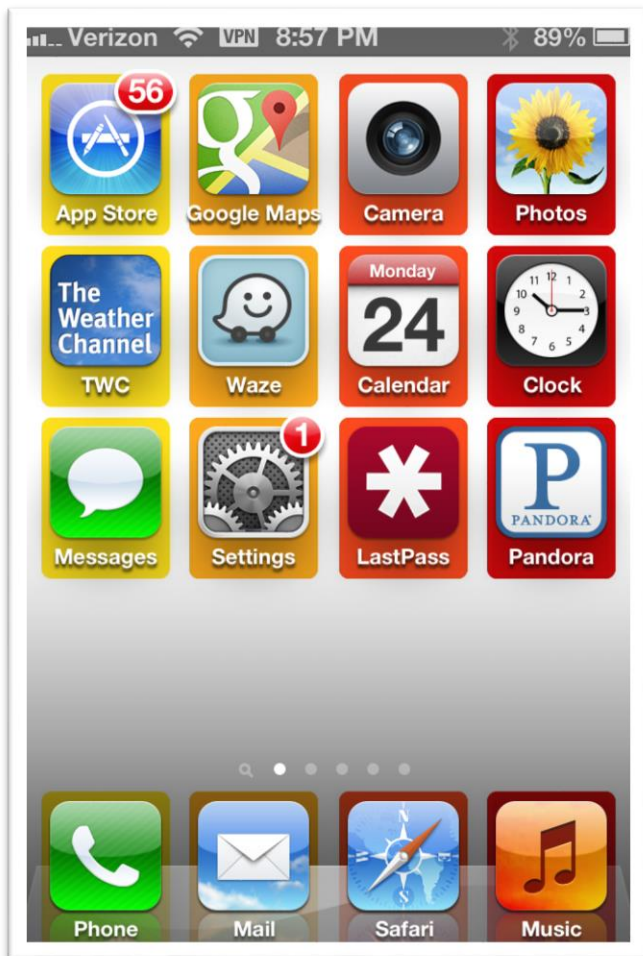
Livescribe Pen

Other Tools

Soulver Calculator

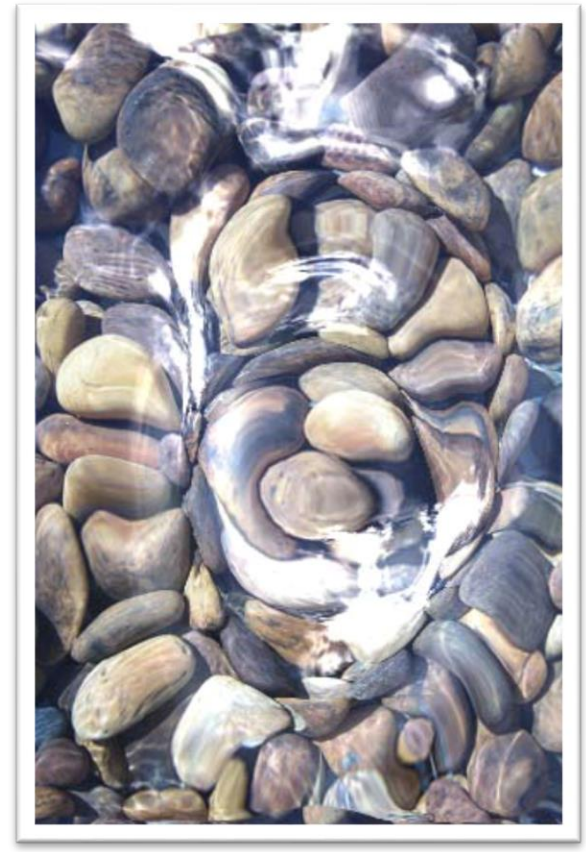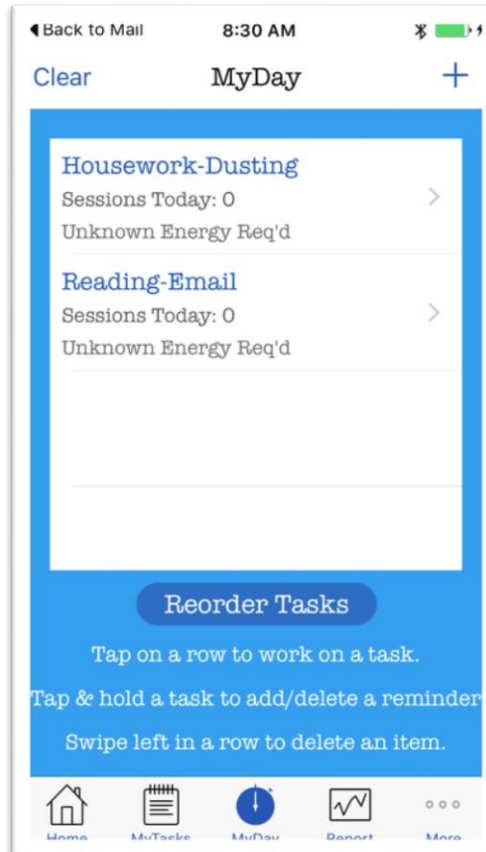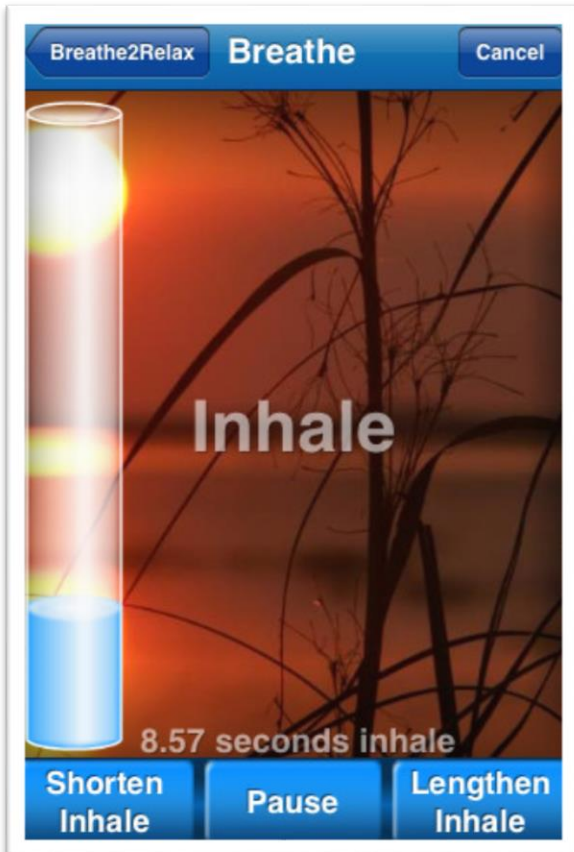MyScript Calculator

GCFLearnFree.org

Self-Regulating Technologies

Breathing or Meditation
(Breathe2Relax)

Personal Strategies
(Pace My Day)

Sensory-Based
(Fluid)

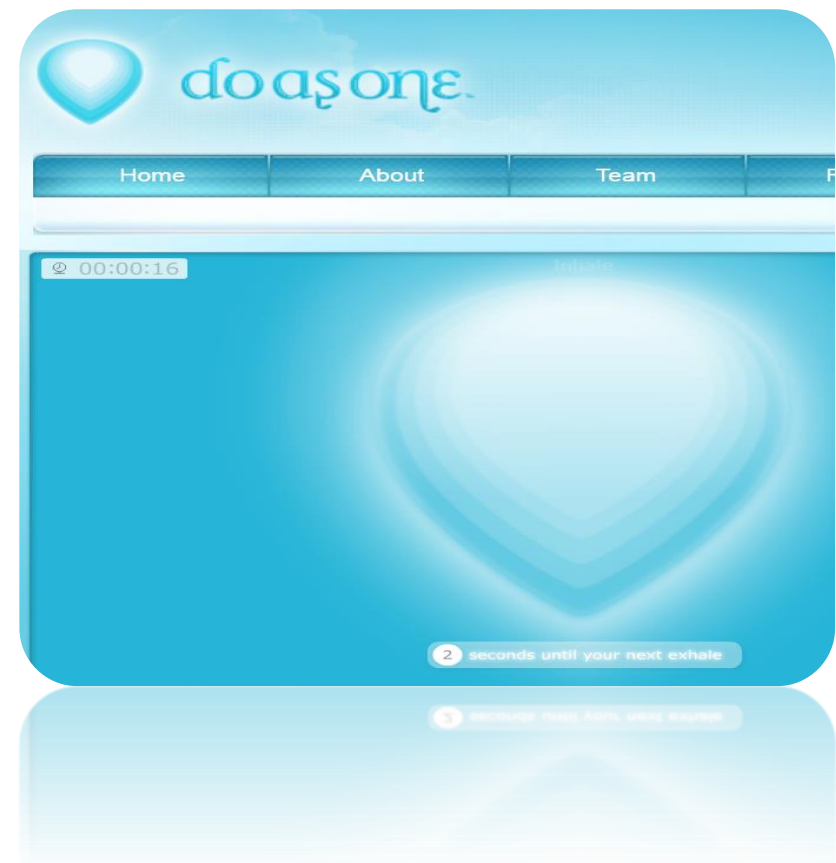# Self-Regulating Technologies

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.
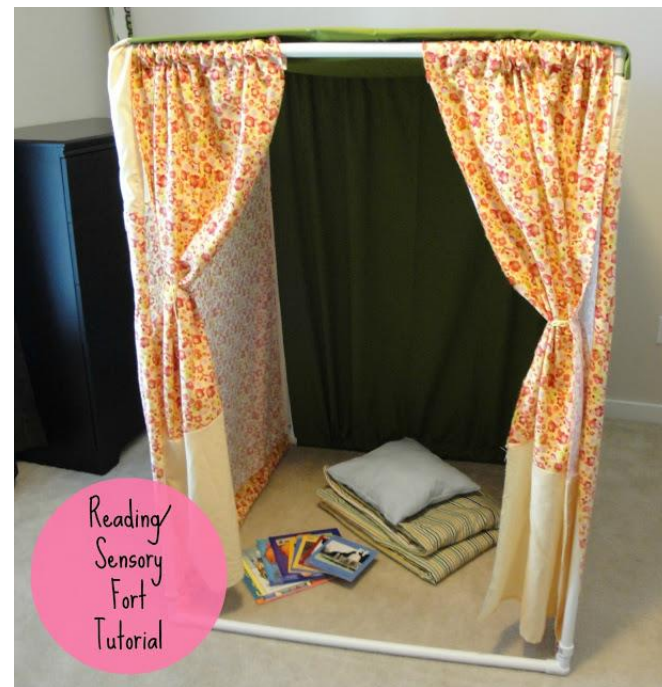
Student displays increasing skill levels.

Management

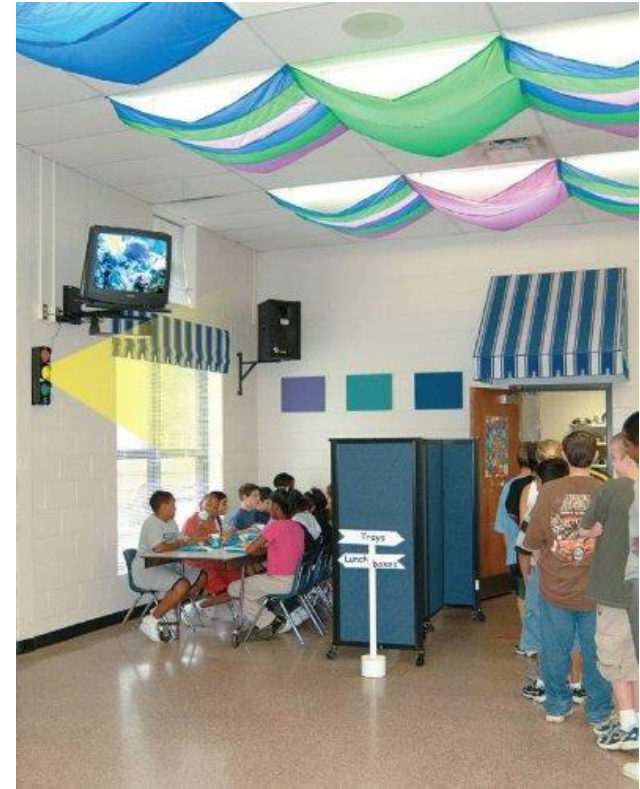Student is tasked with caring for the device.

Student accepts responsibility and ownership.

Environmental Modifications

Reading
Sensory
Fort
Tutorial

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