


ABILITY
FUNCTIONALITY
EXECUTIVE
FUNCTIONING
TASK
CONDUCT
WORK
EMOTIONAL
MONITOR
SERVE
LIFE
PROBLEM
SOLVE
ORGANIZATION
ADAPTIVE
STRATEGIC
PERSISTENT
PERSISTENCE
GOAL
DIRECTED
PERSISTENCE
INHIBITION
OF
IMPULSES
PERFORMANCE
MONITORING
SUSTAINED
ATTENTION
WORKING
MEMORY
TASK
INITIATION
AND
FOLLOW
THROUGH

**TECHNOLOGY
TOOLS TO
SUPPORT
EXECUTIVE
FUNCTIONING**

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Assistive Technology Services—Fairfax County

Movie



What is Executive Functioning?

□ ... neuropsychological concept referring to the cognitive processes required to plan and direct activities, including:

- task initiation and follow through
- working memory
- sustained attention
- performance monitoring
- inhibition of impulses
- and goal directed persistence

(Dawson & Guare, 2004)

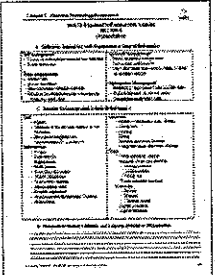
What is Executive Functioning?

□ Obukowicz, Stindt, Rozanski, and Gierach categorize these skills into four categories:

- Self-Organization (self-management)
- Information Management
- Time Management
- Materials Management

Assessing Students' Needs for Assistive Technology (2009) WATI

WATI Student Information Guide




<http://wati.org/content/supports/free/pdf/term/Sec.3-Organization-Form.pdf>

Self-Management

Students who struggle with self-management may:


- have difficulty maintaining attention during tasks
- be unable to shift their attention from one task to another
- have difficulty starting an activity
- not always think before acting
- often display exaggerated emotion
- be unable to bring their emotions under control



Information Management

Students who struggle with information management may have trouble:


- breaking a large project into smaller steps
- organizing notes or review items
- completing multi-step tasks
- initiating tasks
- holding items in working memory
- beginning a task in a timely manner



Time Management

Students who struggle with time management:

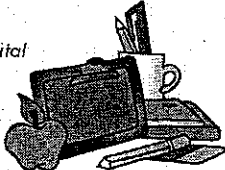
- are often late with assignments
- have difficulty breaking tasks into smaller parts
- have difficulty following a sequence to complete a task
- have difficulty determining the amount of time needed to complete a task
- have difficulty prioritizing tasks




Materials Management

Students who struggle with materials management:


- have messy work and storage areas
- can't find work tools such as books, scissors, or markers quickly
- lose papers and projects
- have trouble keeping their digital files organized








Low Tech Tools

- Color Coding
- Calendars
- Self-Monitoring Tape
- Visual Schedules




Low Tech Tools

- Portable supplies and multiple locations
- Launching Pad
- Accordion binder
- Weekly "clean sweep"






This helps support:
Time Management
Materials Management



Low Tech Tools

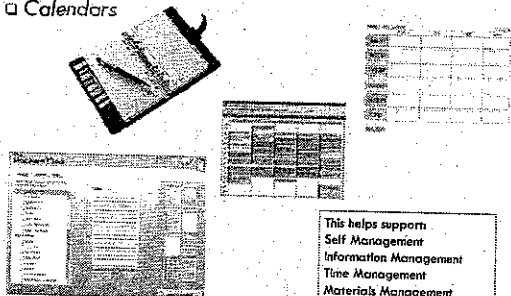
- Prioritizing Strategies
 - "Anxiety" categorization (What makes you most nervous? – do it first)
 - Color coding from "hot/red" to "cool/blue"
 - Arrow Tabs and Page Markers on pages in the book to denote most important information that must be learned



This helps support:
Time Management

Low Tech Tools

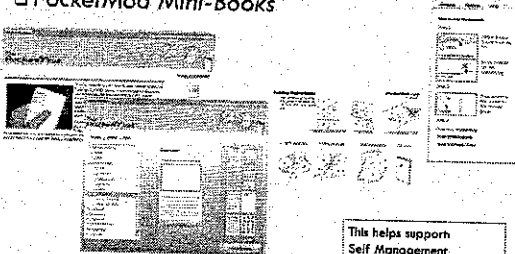
☐ Calendars



This helps support
Self Management
Information Management
Time Management
Materials Management

Low Tech Tools

☐ PocketMod Mini-Books



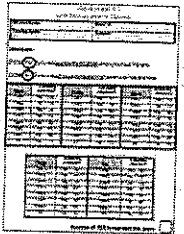
build a mini-book online
www.pocketmod.com

This helps support
Self Management
Information Management
Time Management

Low Tech Tools

☐ Self Monitoring Tape for Sustaining Attention

- Includes tones or beeps at irregular intervals
- Students record their attending behavior when they hear the tone.



www.TeachingLD.org


This helps support
Self Management

Low Tech Tools


Strategy Cards

- Students identify strategies to use in situations where their emotions may get out of control
- Students use a template to make cards showing the strategy in words and visuals
- May serve as a reminder to help students make better self-management decisions


Breathe Deep




Take a Break



Count to 10



Walk Away



This helps support
Self Management


High Tech Tools

- MS Word & PowerPoint
- Graphic Organizers
- PocketMod Mini-Books
- Notetaking

High Tech Tools

Leveraging the Power of MS Office

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Use the text highlight tool to:

- find main ideas, key details, new vocabulary
- interacting with text may help students focus
- emerging readers highlight words they don't understand and return to them later

This helps support
Self Management
Information Management

High Tech Tools

□ Using Graphic Organizers

- "The types of graphic organizers that are most likely to help students with executive function weaknesses to both organize/sequence their thoughts before writing and then confidently transfer the thoughts to narrative are those with an obvious sequential, step-by-step, flow-linear graphic organizers." (Kaufman, Executive Function in the Classroom)

This helps support:
Self Management
Information Management

High Tech Tools

□ Using Graphic Organizers

George Washington

- Born in Virginia
- First President
- Signed the Declaration of Independence

Abraham Lincoln

- Born in a log cabin
- taught himself how to read
- known as Honest Abe

SmartArt in MS Word

This helps support:
Self Management
Information Management

High Tech Tools

□ Kidspiration Templates

□ Use templates to help students structure their writing

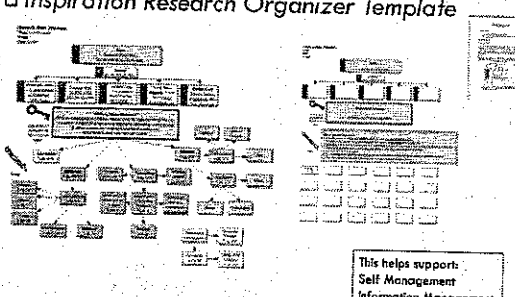
Hamburger Paragraph

Research

This helps support:
Self Management
Information Management

High Tech Tools

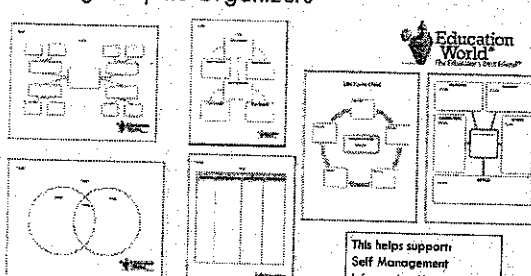
□ Inspiration Research Organizer Template



This helps support:
Self Management
Information Management

High Tech Tools

□ Using Graphic Organizers

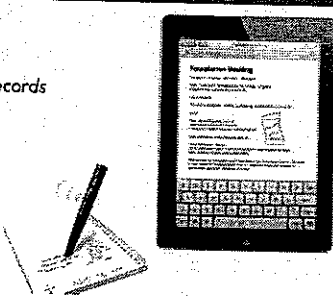


This helps support:
Self Management
Information Management

High Tech Tools

□ Notetaking

- Digital Recorder
- Livescribe Pen - Records audio and notes synchronously
- SoundNote App
- OneNote




This helps support:
Self Management
Information Management

High Tech Tools

☐ **Smartpen**

- Students can take notes in class using the smartpen
- Option of audio recording
- Upload to computer
- Organize by subject
- Search by keyword




This helps support:
Self Management
Information Management
Materials Management

High Tech Tools

☐ **Pencasts**

- Having access to instruction after hours provides students with a powerful tool for learning. Supplemental lesson pencasts can be created for students to access independently.

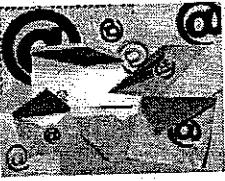


This helps support:
Self Management
Information Management
Materials Management


High Tech Tools

☐ **Email**


- When teachers request a hard copy of an assignment, have the child email the assignment to his teacher or his/her own account. Then, the student can print it out at school if it is misplaced.



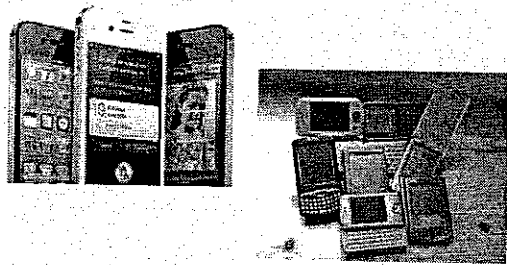
This helps support:
Information Management
Materials Management


 **Mobile Tech Tools**

- *Electronic Organizers*
- *Organizing Digital Files*
- *Tablets*


 **Mobile Tech Tools**

□ *Electronic Organizers*



 **Mobile Tech Tools**

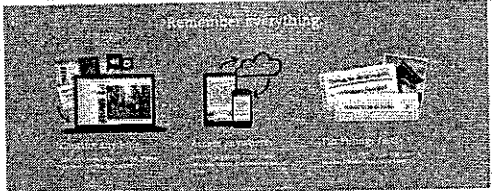
□ *Using Photos*



Many mobile devices have the capability of taking pictures. For example, students could take a picture of the assignment that the teacher wrote on the board, or a picture of the way their desk should be organized.

Mobile Tech Tools

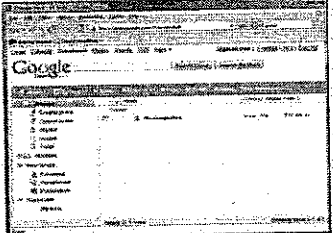
□ Organizing Digital Files



Evernote - <http://evernote.com>

Mobile Tech Tools

□ Organizing Digital Files




Google Docs

Mobile Tech Tools

□ Using the iPad for Executive Functioning Gaps

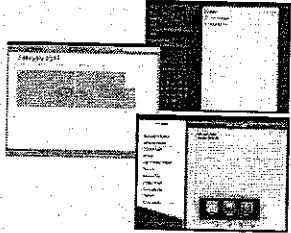
- Compact and portable
- Many tools already built in
- Keeps everything in one place
- Can be tailored to individual needs



Mobile Tech Tools

□ Standard Apps

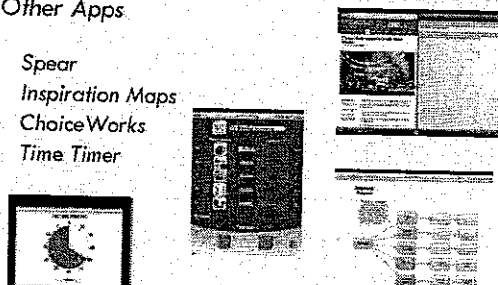
- Reminders
- Calendar
- Notes
- Camera
- Clock



Mobile Tech Tools

□ Other Apps

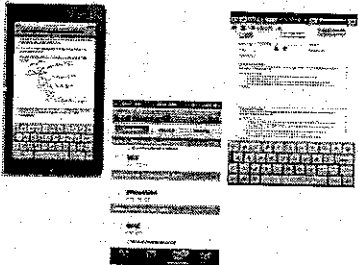
- Spear
- Inspiration Maps
- ChoiceWorks
- Time Timer




Mobile Tech Tools


□ Other Apps

- AudioNote
- iStudiez Pro
- Type on PDF





 Internet Resources

- Timers
- Online Checklist Creator
- Flash Cards
- Rubrics
- Study Guides and Strategies

 Internet Resources

Timers <http://www.fimeme.com/timer.htm>


 

<http://timer.onlineclock.net/>

00:00:00


<http://www.timeanddate.com/timeact>

This helps support:
Self Management
Time Management


 Internet Resources

Flash Cards


- <http://www.studystack.com>
- <http://www.funnelbrain.com>
- <http://www.studyblue.com>
- <http://www.proprofs.com>
- <http://www.aplusmath.com>
- <http://www.spellingcity.com>



This helps support:
Self Management
Information Management

 **Other Resources**

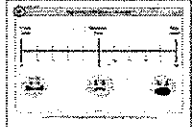

Reference Materials


 **Other Resources**

Unstuck & On Target!

An Executive Function Curriculum to Improve Flexibility for Children with Autism Spectrum Disorders by Lynn Cannon, Lauren Kenworthy, Katie Alexander, Marisa Adler-Werner, Laura Guterluth, Anthony, and John Elder Robinson.

A CD with activities is also provided




 **Other Resources**

Executive Skills in Children and Adolescents

Practical Intervention in Schools by Peg Dawson EdD and Richard Guare PhD

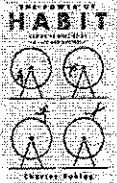
This book provides step-by-step guidelines and many practical tools to promote executive skill development by implementing environmental modifications, individualized instruction, coaching, and whole class interventions.



Other Resources

□ *The Power of Habit: Why we do what we do in life and business*
by Charles Duhigg.

This book explains why habits exist and how they can be changed.




The book cover features the title 'THE POWER OF HABIT' in large, bold letters. Below the title, there are four circular icons, each containing a different symbol. The author's name 'CHARLES DUHIGG' is at the bottom.

Other Resources

□ *Using Technology with Classroom Instruction that Works, 2nd Edition*
by Howard Pitler, Elizabeth Hubbell, Matt Kuhn.

This book is about using technology as one of several tools for providing good instruction.




The book cover has the title 'USING TECHNOLOGY WITH CLASSROOM INSTRUCTION THAT WORKS' in a stylized font. The authors' names are listed below the title.


Other Resources

□ *Mind in the Making: The Seven Essential Life Skills Every Child Needs*
by Ellen Galinsky

This book is about life skills such as:

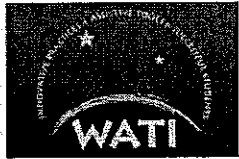



The book cover features the title 'MIND IN THE MAKING' in large, bold letters. Below the title, there is a small illustration of a child's head with gears inside. The author's name 'ELLEN GALINSKY' is at the bottom.

 **Other Resources**

□ *Assessing Students' Needs for Assistive Technology (Chapter 9 – Assistive Technology for Organization) - WATI*


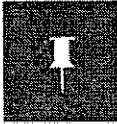
<http://www.wati.org/?pageLoad=content/supports/free/index.php>




 **Other Resources**

□ *Executive Functioning Pinterest Site*


<http://pinterest.com/ldgivenfcps/8ci>




 **Other Resources**


□ *Google site with documents from this presentation*

<https://sites.google.com/site/execution/>





Your Ideas?



A cartoon character with a round body, large eyes, and a hand on its chin, with a thought bubble above its head. The character is positioned in the lower half of a rectangular box.
