



"...however difficult life may seem, there is always something you can do and succeed at."



Schools

Stephen Hawking

Learning Objectives

Participants will be able to...

- understand and define assistive technology (AT)
- understand AT consideration process
- gain awareness of AT tools and strategies
- recognize AT for executive function skills



AT Definitions: IDEA

What is an Assistive Technology device?

"...<u>any</u> item, piece of equipment or product system, whether acquired commercially off the shelf, modified, or customized, that is used to increase, maintain, or improve functional capabilities of a child with a disability."

(§ 300.5; Authority: 20 U.S.C. 1401(1))



AT Definitions: IDEA

What is an Assistive Technology Service?

"...**any** service that directly assists a child with a disability in the selection, acquisition, or use of an assistive technology device."



In English Please!

Practical Definition:

(§ 300.6; Authority: 20 U.S.C. 1401(2)



"any device, software or equipment that can help kids with learning and attention issues work around their challenges."

https://www.understood.org/en/schoollearning/assistive-technology/assistivetechnologies-basics



Individuals with Disabilities Education Improvement Act, 2004

- Mandates a free appropriate public education (FAPE) for children and youth with disabilities.
- Provides procedural safeguards to ensure that children/youth with disabilities receive the special education and related services required in order to benefit from their educational program.



Individuals with Disabilities Education Improvement Act, 2004

The law states that:

https://sites.ed.gov/idea/

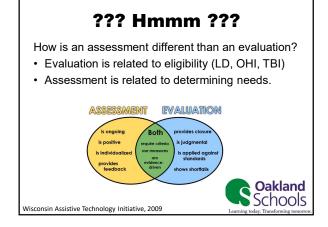
- The assistive technology needs of a student must be **considered** at IEP meetings
- The IEP team has the power to determine if a student receiving special services needs AT in order to receive a FAPE

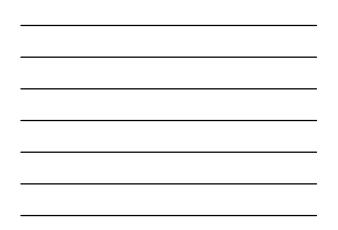


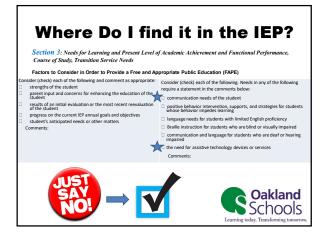
AT Consideration Process

- The IEP team completes an active process to determine what, if any, technology a student needs to guarantee a FAPE
- It is a "Process" by which the team "considers" (assesses) the need based on data















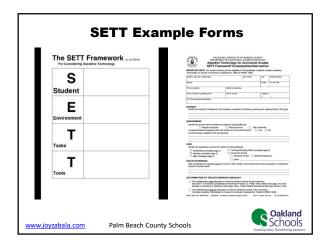
The Framework for Consideration
and Assessment of ATImage: Student
Image: Image: Image:

SETT: 8-Step Decision-Making Process

- 1. Identify areas of concern
- 2. Gather information on aspects related to concerns
- 3. Analyze information
- 4. Generate and prioritize potential solutions
- 5. Develop a plan
- 6. Work the plan and collect data on effectiveness
- 7. Revise the plan as indicated by data
- 8. Document

www.joyzabala.com











AT Exists on a Continuum

<u>No Tech</u>: mnemonic devices, graphic organizers, visual supports, calendar, notebook organizers

Low Tech: communication boards, pencil grips, slant boards, timers

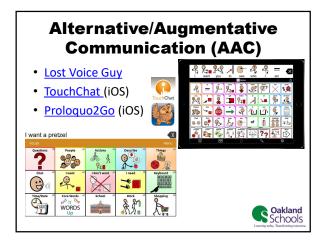
Mid Tech: switches, keyboards, pointing devices

High Tech: computers, tablets, ChromeBooks, eyegaze devices, home assistants, AAC devices, wearables

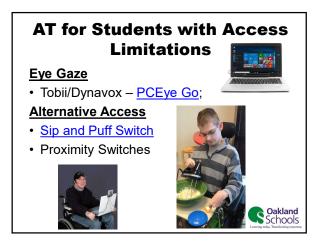


- Support compensatory strategies
- Match the student's functional needs
- Are minimally intrusive
- Foster independence
- Do not have a steep learning curve

Kirsch, et al. 2004





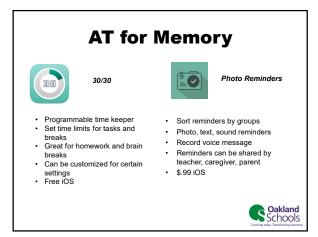






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12 Areas of Executive Function				
Response Inhibition	Working Memory	Emotional Control	Sustained Attention	
Response Inhibition Task Initiation	Working Memory Planning / Prioritization	Emotional Control Organization	Sustained Attention Time Management	

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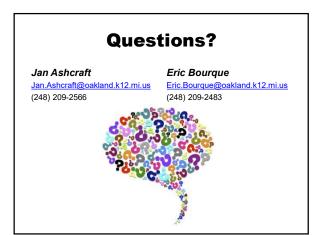


- Helps students with fine motor issues complete worksheets Converts colored sheets to B&W .
- Applies colored backgrounds for
- those who need visual contrast Free (lite version); Paid \$4.99
- Topic dictionaries
 - . Flexspell technology recognizes inventive spelling
 - Grammar support .
 - Text to speech Free iOS (requires paid
 - subscription; \$4.99/mo) Schools



Parting Thoughts

- · AT augments instruction; it does not replace it.
- · AT exists to assist the user and support staff in eliminating and/or reducing barriers due to disability.
- AT exists on a continuum from no tech to high tech; redundancy is key.
- The best AT is AT that the student will use.



Works Cited

- Brain Injury Association of Virginia. Brain Injury and the Schools. A Guide for Educators. Retrieved February 2015, from http://www.biav.net. C. (2008). Late, lost and unprepared: A parents' guide to helping children with executive functioning. Bethesda, Md. Woodbine House. "Preventing, Treating, Living with Trumantie Brain Injury (TBI). Brainline, 2017. http://www.brain.acuto.com, A Disted, L. C. (2008). Late, lost and unprepared: A parents' guide to helping children with executive functioning. Bethesda, Md. Woodbine House. "Preventing, Terating, Living with Trumantie Brain Injury (TBI). Brainline, 2017. http://www.brainline.org. "CDC Report Shows Increased in Fail-Related TBIs." Brain hirury Association of United States. 15 March 2017 http://www.brainline.org. "CDC Report Shows Increased in Fail-Related TBIs." Brain hirury Association of United States. 15 March 2017 http://www.brainline.org. "CDC Report Shows Increased in Fail-Related TBIs." Brain hirury Association of United States. 15 March 2017 http://www.brainline.org. "CDC Report Shows Increased in Fail-Related TBIs." Brain Injury Awareness. (electronic) Atlanta, GA. Clarado Danathant of Children and Atlanta and A

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