Assistive Technology Professional Development Module





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Overview

This module is intended to assist local educational agencies (LEAs) in providing professional development for educators by addressing assistive technology for students on an individualized education program (IEP). The contents of this module include resources to assist educators in providing assistive technology and a PowerPoint presentation over the basics of assistive technology, entitled *Assistive Technology 101*.

All modules include relevant background information, activities/materials, and a scripted PowerPoint presentation for a particular topic area. These modules are intended for use in a workshop or other professional development setting (e.g. faculty meeting, PLC meeting). Presenters are free to use the modules in whichever way they choose.

Background Information

Assistive technology is defined by the IDEA as, "technology used by individuals with disabilities in order to perform functions that might otherwise be difficult or impossible." Assistive technology must be considered for every student with a disability during the development, review, and revision of the IEP. This includes the Initial, Interim, Subsequent, Amended, and Modified IEP or when a team member deems it necessary.

The Oklahoma State Department of Education, Special Education Services (OSDE-SES) division is committed to assisting school personnel and ensuring students with disabilities assistive technology needs are met. OSDE-SES contracts with Oklahoma ABLE Tech to provide statewide assistive technology services to students served under Part C and Part B of the IDEA.

Statewide assistive technology services are provided for the areas of short-term device loans, assistive technology consultations, trainings, webinars and assistance in providing accessible educational materials. Technical assistance documents are also available for the areas of assistive technology and accessible instructional materials. These resources are only available online in order for changes to be made as federal and State requirements are updated or revised, and according to suggested "best practice" changes by various stakeholders.

Individuals with Disabilities Education Act (IDEA) Regulations

This section provides excerpts from the Individuals with Disabilities Education Act (IDEA), as related to assistive technology. Additional resources are provided to assist educators, parents and students in the acquisition and use of assistive technology, as it relates to students on an IEP.

Sec. 300.105 Assistive Technology (a) Each public agency must ensure that assistive technology devices or assistive technology services, or both, as those terms are defined in Sec. 300.5 and 300.6, respectively, are made available to a child with a disability if required as a part of the child's--

(1) Special education under Sec. 300.36;

(2) Related services under Sec. 300.34; or

(3) Supplementary aids and services under Sec. 300.38 and 300.114(a)(2)(ii).

(b) On a case-by-case basis, the use of school-purchased assistive technology devices in a child's home or in other settings is required if the child's IEP Team determines that the child needs access to those devices in order to receive FAPE. (Authority: 20 U.S.C. 1412(a)(1), 1412(a)(12)(B)(i)

34 CFR §300.5 Assistive Technology Device "Assistive technology device means any item, piece of equipment, or product system, whether acquired commercially off the shelf, modified, or customized, that is used to increase, maintain, or improve the functional capabilities of a child with a disability. The term does not include a medical device that is surgically implanted, or the replacement of such device."

34 CFR §300.6 Assistive Technology Service "Assistive technology service means any service that directly assists a child with a disability in the selection, acquisition, or use of an assistive technology device. The term includes:

(a) The evaluation of the needs of a child with a disability, including a functional evaluation of the child in the child's customary environment;

(b) Purchasing, leasing, or otherwise providing for the acquisition of assistive technology devices by children with disabilities;

(c) Selecting, designing, fitting, customizing, adapting, applying, maintaining, repairing, or replacing assistive technology devices;

(d) Coordinating and using other therapies, interventions, or services with assistive technology devices, such as those associated with existing education and rehabilitation plans and programs;(e) Training or technical assistance for a child with a disability or, if appropriate, that child's family; and,

(f) Training or technical assistance for professionals (including individuals providing education or rehabilitation services), employers, or other individuals who provide services to, employ, or are otherwise substantially involved in the major life functions of that child."

Materials/Resources

Copies of materials for the presentation are found in a separate file. All materials are optional. Presenters may encourage participants to bring laptops or other devices to download the Policies, Handbook, and Process Guide documents at relevant points during the session. Alternatively, presenters may request that participants download these documents prior to the session.

Handout/Activities

The activities aligned to this module are not required. However, the activities do allow the audience an opportunity to interact with the content. The presenter should expect the activities to take at least an additional 30 minutes, as compared to the presentation without activities.

The handout is a two page document, which is part of the materials. The Handout is designed to supplement the presentation. The audience should be encouraged to explore the resources in the Handout independently. The Handout is appropriate for either presentation. The materials include documents referenced in the presentations. The contents of the materials packet include the *Handout*, an FAQ, *AT at a Glance*, and examples of assistive technology tools.

Presentation

This presentation is intended to engage staff in meaningful professional development. Presenters should become familiar with the PowerPoint notes and other materials/resources included in this module, as well as additional resources related to the topic. There is space after each slide's presentation where the presenter may note any additional information related to LEA/school expectations or procedures.

Slide operation: Slides load completely. No clicks are necessary (except to advance to the next slide). Under each slide are presenter discussions, questions to draw in the audience and activity opportunities.

Presentation Length

There are two PowerPoint presentations; one contains activities and one does not. The presentation containing activities is intended to be a 90 minute session; the presentation without activities is intended to be a 60 minute session. Presenters will choose the presentation that best fits the audience's needs. The length of the presentations may vary according to the amount of time spent modeling how to access/utilize documents and addressing questions that are raised during the presentation.

Frequently Asked Questions

Q. What is the purpose of assistive technology?

A. The purpose of assistive technology is to facilitate the student's participation in his or her education program and to enable the student to receive a free and appropriate education (FAPE). For example, the technology may provide an alternative means of accessing the curriculum, an alternative means of learning, or it may provide access to the school program. Assistive

technology should support the student in the general curriculum and in the least restrictive environment to the greatest extent.

Q. Should AT be considered for all students with disabilities?

A. Yes. Under consideration of special factors, the IDEA states "that the IEP team shall consider whether the student requires assistive technology devices and services."

Q. Is AT required for all students who have an IEP?

A. No. AT must be considered for all students with an IEP. The IEP team will determine if AT is required.

Resources

Technical Assistance Guide Assistive Technology for Children and Youth with Disabilities IDEA Part B

The guide contains information and resources related to all components of the assistive technology service process.

<u>NOTE:</u> A downloadable version of the entire document as well as a synopsis may be found at <u>www.ok.gov/abletech/Resources/Children_&_Youth/index.html</u> or <u>http://ok.gov/sde/assistive-technology</u>.

Statewide Assistive Technology Services Oklahoma ABLE Tech

Oklahoma ABLE Tech is the statewide Assistive Technology Act Program. Oklahoma ABLE Tech offers statewide assistive technology and information services for children and youth being served under IDEA Part B and C. Their services include assistive technology consultations, device demonstrations, short-term device loans, trainings, webinars, and assistance in providing accessible instructional materials (AIM).

Phone: 888.885.5588 | www.ok.gov/abletech/

AIM Center at the Oklahoma Library for the Blind and Physically Handicapped (OLBPH)

Located at the Oklahoma Library for the Blind and Physically Handicapped, the AIM Center provides AT as it relates to reading books in accessible digital and audio formats.

Phone: 800.523.0288 | www.library.state.ok.us/aim/







Liberty Braille

Provides no-cost school term loans of textbooks in accessible formats such as large print, braille, and digital books on iPad, to print-disabled students served under an IEP.

Phone: 800.920.3369 | www.libertybraille.com

Oklahoma State Department of Education, Special Education Services

Oklahoma State Department of Education, Special Education Services is committed to providing guidance and support in order to promote excellence in education. This mission is accomplished by providing meaningful resources and accurate technical assistance.

Phone: 405.521.3351 | <u>http://ok.gov/sde/special-education</u> technology

National Professional Development Resources IRIS Center

The IRIS Center is a national center dedicated to improving education outcomes for all children, especially those with disabilities birth through age twenty-one, through the use of effective evidence-based practices and interventions. IRIS resources cover topics having to do with the education of all children, particularly those with disabilities, birth through age twenty-one. Phone: 800.831.6134 <u>iris.peabody.vanderbilt.edu/iris-resource-locator/</u>

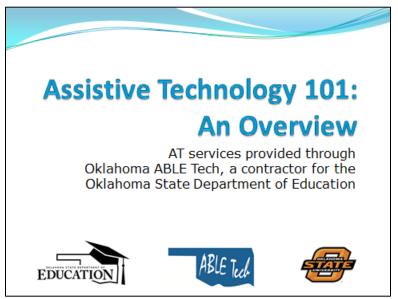


oklahoma state department of education

http://ok.gov/sde/assistive-



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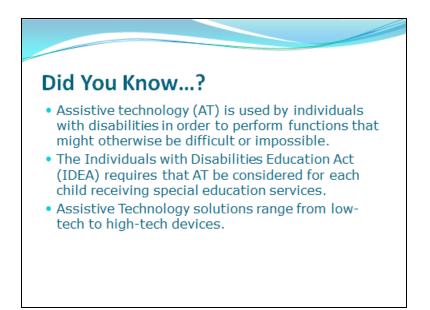


Welcome to Assistive Technology 101: An Overview

AT services are provided through Oklahoma ABLE Tech, a contractor for the Oklahoma State Department of Education. ABLE Tech provides a variety of statewide assistive technology services including short-term device loans, assistive technology consultations, trainings, webinars, and assistance in providing accessible educational materials.

Materials needed: Laptop, Tablet, or Smart Phone with internet access

Materials suggested: A copy of an IEP and a copy of the AT TA Guide



Assistive technology is technology used by individuals with disabilities in order to perform functions that might otherwise be difficult or impossible.

The Individuals with Disabilities Education Act (IDEA) requires AT be considered for each child receiving special education services.

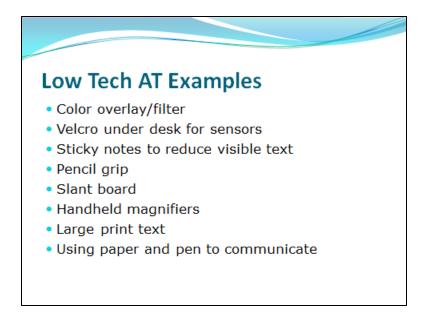
Assistive technology solutions range from low-tech to high-tech.

A list of common examples of assistive technology tools can be found here: <u>http://ok.gov/sde/sites/ok.gov.sde/files/Assistive%20TechnologyTools.pdf</u>



To begin, we will discuss the laws relating to assistive technology in the schools.

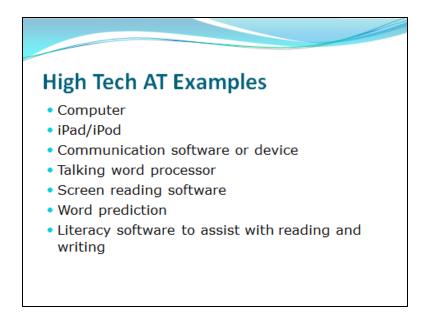
According to number 34 Code of Federal Register Section 300.5, Assistive technology device means any item, piece of equipment, or product system, whether acquired commercially off the shelf, modified, or customized, that is used to increase, maintain, or improve functional capabilities of a child with disabilities.



Low tech AT devices or equipment do not require much training, may be less expensive and do not have complex mechanical features. Examples of low tech AT devices include:

- Color overlay/filter
- Velcro under desk for sensors
- Sticky notes to reduce visible text
- Pencil grip
- Slant board
- Handheld magnifiers
- Large print text
- Using paper and pen to communicate

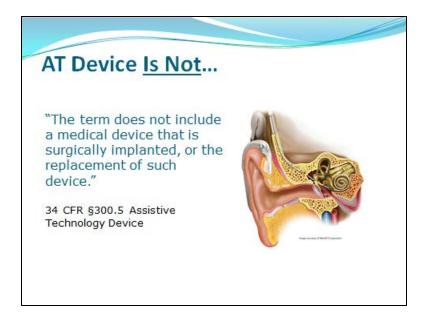
For a handout, a list of common examples of assistive technology tools can be found here: http://ok.gov/sde/sites/ok.gov.sde/files/Assistive%20TechnologyTools.pdf



High tech AT are generally come complicated and more expensive than low tech devices. Many of the devices are electronic or computerized and require training to learn how to use. Examples of high tech AT devices include:

- Computer
- iPad/iPod
- Communication software or device
- Talking word processor
- Screen reading software
- Word prediction
- Literacy software to assist with reading and writing

For a handout, a list of common examples of assistive technology tools can be found here: <u>http://ok.gov/sde/sites/ok.gov.sde/files/Assistive%20TechnologyTools.pdf</u>



Many children have assistive technology for feeding, hearing or other medical needs. However, the definition does not include a medical device that is surgically implanted, or the replacement of such a device.



Assistive Technology Service is defined as "any service that directly assists persons with a disability in the selection, acquisition, or use of an assistive technology device." This can include training for teachers, para-professionals and other school staff, parents and students.

In a moment we will go over the IDEA and where to document AT in the Individualized Educational Program (IEP).

First we'll look at some examples of AT devices and software.

IDEA 2004			
 (a) Each public agency must ensure the devices or assistive technology services available to a child with a disability if richild's- (1) Special education under Sec. 300.34 (2) Related services under Sec. 300.34 (3) Supplementary aids and services under 300.114(a)(2)(ii). 			
34 CFR § 300.105 Assistive Technology			
		(Continued)	
IDEA 2004, Continued			
(b) On a case-by-case basis, the use of school-purchased assistive technology devices in a child's home or in other settings is required if the child's IEP team determines that the child needs access to those devices in order to receive FAPE."	DATE FOR LALLED & EFFC. LEDIN FROM AN (EP). With the second se		
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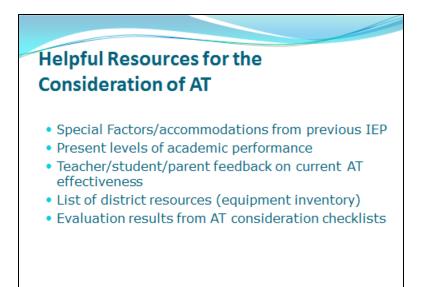
The IDEA requires IEP teams to consider five special factors. The IEP team must determine if any of these five factors are relevant for the child and, if so, address the factor in the child's IEP. Assistive Technology is one of these special factors.

In this process of considering assistive technology, IEP teams should consider whether or not the student will need the AT in settings other than the classroom, including the playground, lunch room, and at home (for example).

Development, Review, and Revision of
LP(2) Consideration of Special Factors."The IEP Team shall — (v) Consider whether the
child needs assistive technology devices and
services."34 CFR §300. 24(a)(2)

Section 300.24 relates to Development, Review, and Revision of the IEP, and it is the section of IDEA that specifically states that assistive technology must be considered for all students receiving special education services.

The next two slides provide resources helpful to the consideration of AT and AT Examples to address functional impairments.

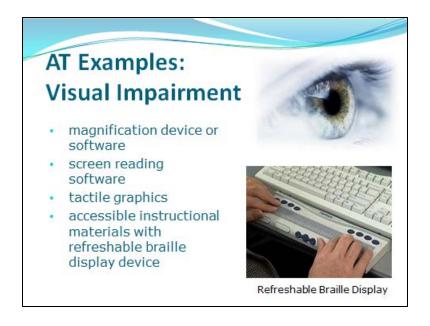


When considering AT as an IEP team, it is beneficial to look at these specific areas. These areas will help the team gain a better understanding of the student's needs.

- Special Factors/accommodations from previous IEP
- Present levels of academic performance
- Teacher/student/parent feedback on current AT effectiveness
- List of district resources (equipment inventory)
- Evaluation results from AT consideration checklists



AT is available to address a variety of needs. Specific disability characteristics and examples of AT to promote access to curriculum will be discussed in more detail in the following slides.



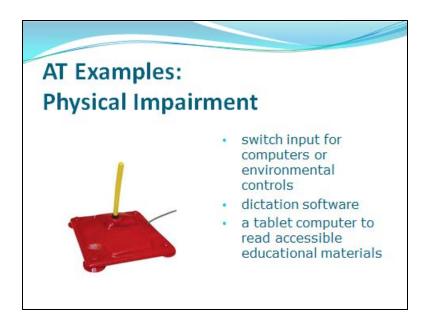
AT for visual impairment includes:

- Portable magnifier such as a Ruby, VisioBook, or magnification software such as ZoomText;
- Screen reading software such as Jaws or the NVDA free or open source screen reader (NonVisual Desktop Access is a free or open source "screen reader" which enables blind and vision impaired people to use computers.); and
- Tactile graphics- along with the software and hardware needed to produce them and accessible educational materials used in conjunction with a refreshable braille display.
 - Tactile Graphics 1.35 min video from Perkisn Vision https://www.youtube.com/watch?v=OUc3-cCTAus&list=PL62D62E1F24108E4C



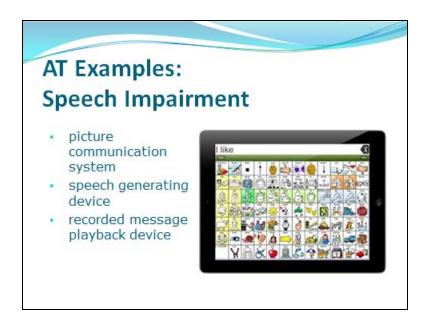
A student with a hearing impairment may benefit from:

- Voice to text software to provide the student a readout of what the teacher says;
- A vibration alert device;
- A hearing loop system that works with a student's cochlear implant; or
- A personal sound amplification system.
 - Digital amp for Preschool 1:38 <u>https://www.youtube.com/watch?v=o3GoxldPLgc&index=4&list=PLB54350031</u> 4012645
 - Primary/secondary school uses 1:34 video <u>https://www.youtube.com/watch?v=vQ6asbuU4Hw&index=5&list=PLB5435003</u> <u>14012645</u>



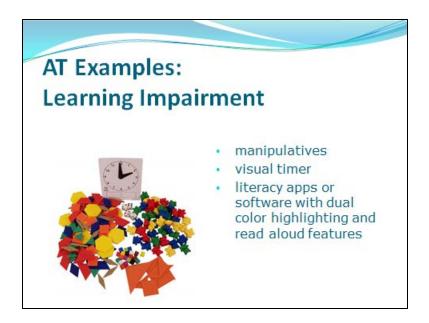
Individuals with physical impairment may benefit from:

- The use of dictation software to complete assignments;
- The use of a lightweight mobile device like an iPad or other tablet computer to read accessible digital textbooks; and/or
- A switch input for computer access or environmental controls- a student might use a switch to operate scissors.
 - Other AT in Action videos Brody, 6th grader using AT to write and participate in class. <u>https://www.youtube.com/channel/UCOmFlteIOXvxWs7TNJOwJ1g</u>



Examples of AT for speech impairment include:

- picture communication system- these range from low-tech to high-tech;
- speech generating device- there are many brands and models, as well as an ever-growing number of mobile device apps to consider; and
- recorded message playback device- such as an iPod or even a cell phone with a voice recording app.
- In your handout is a list of web-based resources. If you visit ABLE Tech's website, you will find a variety of resources. Included on their YouTube channel is a 15 min video, *The Basics of AAC (Augmentative and Alternative Communication)* <u>https://www.youtube.com/watch?v=hWefkLfeGv4&index=11&list=PL0gW6noozmWF</u>
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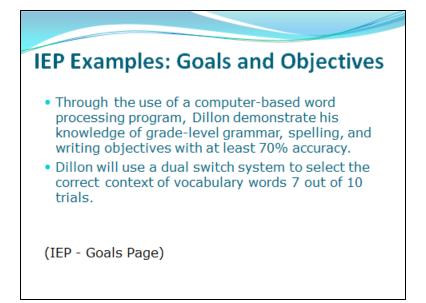


with mild disabilities, such as a learning impairment, may often be over looked when considering assistive technology. However, students can benefit from the use of assistive technology, as well.

AT for instructional or learning purposes includes:

- manipulatives, tactile objects for math or other activities
- a visual timer to help the student stay on task and anticipate events
- Students with learning difficulties may also benefit from literacy apps or software with dual color highlighting and read aloud features.

So, that's a look at some possible devices a student might need. Now let's look at what is required by law.

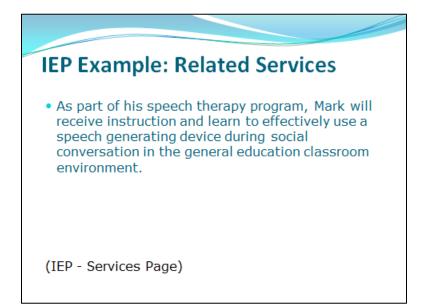


Now, we will look at where assistive technology fits in the Individualized Educational Program (IEP).

The first section we will consider is Educational Goals and Objectives.

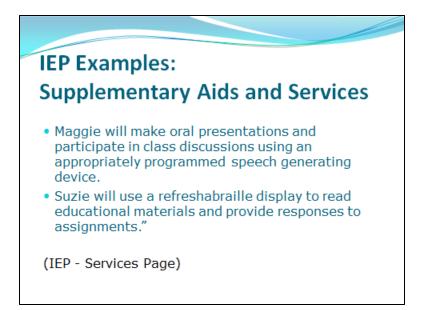
For example, you might report that "Through the use of a computer-based word processing program, Dillon demonstrate his knowledge of grade-level grammar, spelling, and writing objectives with at least 70% accuracy."

Another example is: "Dillon will use a dual switch system to select the correct context of vocabulary words 7 out of 10 trials."



Under Related services the team may report that "As part of his speech therapy program, Mark will increase his ability to interact appropriately with peers and adults in the school environment through the use of a speech generating device."

This example fits the provision of related service, rather than a goal because Mark will use a speech generating device as part of his speech therapy program. The speech language pathologist will be responsible to see Mark uses this device during speech and within the general education environment.



An example of supplementary aids and services would be "Maggie will make oral presentations and participate in class discussions using an appropriately programmed speech generating device."

Another example is: "Suzie will use a refreshabraille display to read educational materials and provide responses to assignments."

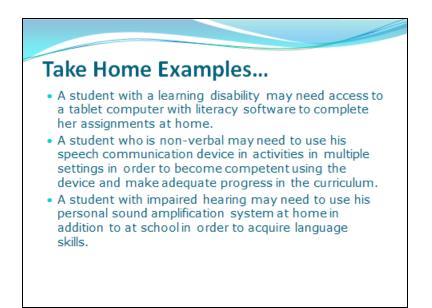


As discussed before, IDEA 2004 Section 300.105 on Assistive Technology says each public agency must ensure that assistive technology devices or assistive technology services, or both, are made available to a child with a disability if required as a part of the child's IEP.

So, when would it be appropriate for AT to go home with a child?

The IEP team may determine that a student can take their AT devices home:

- if they need at-home access to educational materials in a specialized format that requires an assistive technology device,
- if they need practice using a device in daily activities and multiple settings
- other purposes as determined by the IEP Team.

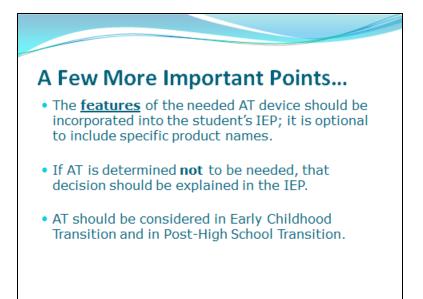


Some examples of situations where a student may take an AT device home are:

A student with a learning disability needs access to a tablet computer with literacy software to complete her homework.

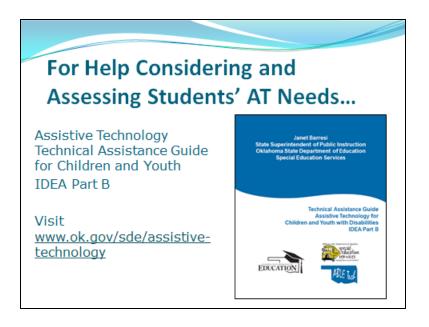
A student who is non-verbal may need to use his speech communication device in activities in multiple settings in order to become competent using the device and make adequate progress in the curriculum.

And, a student with impaired hearing uses his personal sound amplification system at home, in addition to school, to acquire language skills.



A few more points to note...

- The **features** of the needed AT device should be incorporated into the IEP wherever possible.
- If AT is determined **not** to be needed, that decision should be explained in the IEP.
- AT should be considered in Early Childhood Transition and in Post-High School Transition.



For AT resources, or help considering and assessing students' AT needs visit ok.gov/sde/assistive-technology.

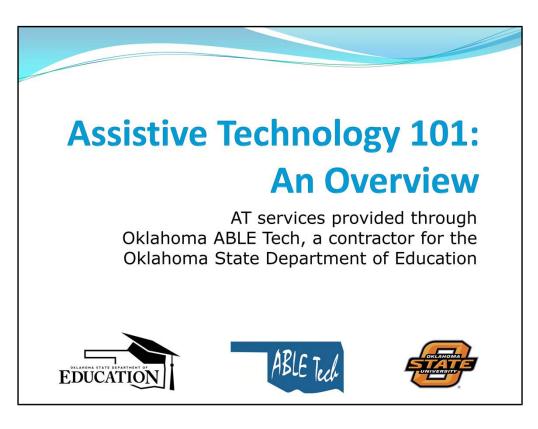
The technical assistance document contains references the IDEA, as well as resources concerning Universal Design for Learning, AT assessment, IEP team decision making, choosing the appropriate AT device, and accessible instructional materials.



Oklahoma ABLE Tech is the statewide Assistive Technology Act Program. They provide a variety of services including an Information Services Program for children and youth served under the IDEA, which is contracted through the Oklahoma State Department of Education.

You can call toll free at 800-257-1705 or 888-885-5588, send an email to <u>abletech@okstate.edu</u> or visit the website at <u>www.okabletech.okstate.edu</u>.

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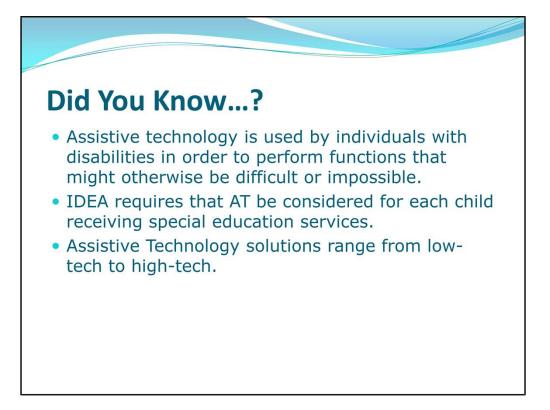


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Materials needed: Laptop, Tablet, or Smart Phone with internet access

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Assistive technology is technology used by individuals with disabilities in order to perform functions that might otherwise be difficult or impossible.

The Individuals with Disabilities Education Act (IDEA) requires AT be considered for each student receiving special education services.

Assistive technology solutions range from low-tech to high-tech. For a handout, a list of

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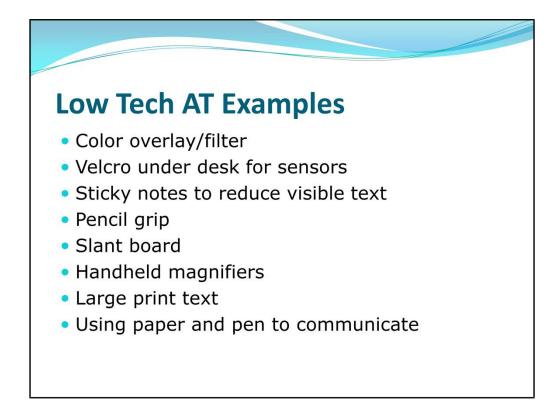
http://ok.gov/sde/sites/ok.gov.sde/files/Assistive%20TechnologyTo ols.pdf



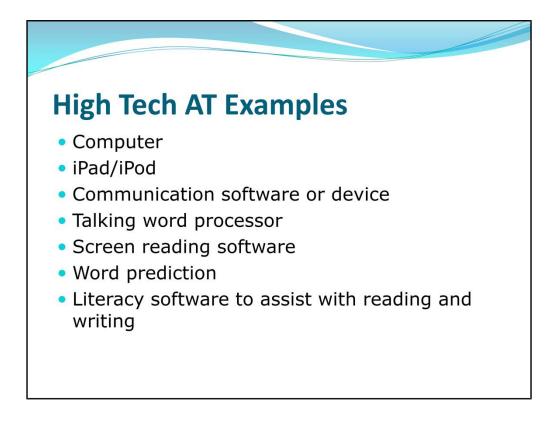
To begin, we will discuss the laws relating to assistive technology in the schools.

According to number 34 Code of Federal Register Section 300.5, Assistive technology device means any 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 disabilities.

ACTIVITY: Watch Oklahoma ABLE Tech video, "Assistive Technology 101" 4 minutes



For a handout, a list of common examples of assistive technology tools can be found here: <u>http://ok.gov/sde/sites/ok.gov.sde/files/Assistive%20TechnologyTo_ols.pdf</u>



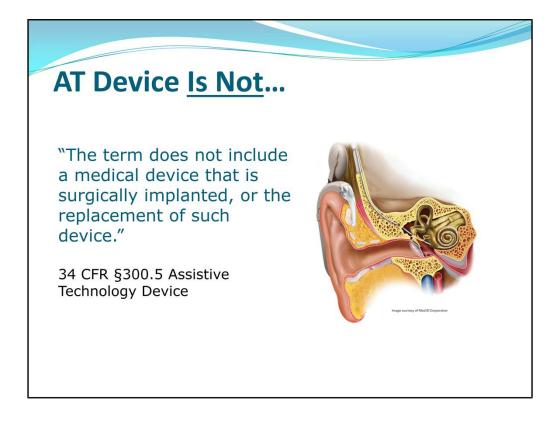
For a handout, a list of common examples of assistive technology tools can be found here: http://ok.gov/sde/sites/ok.gov.sde/files/Assistive%20TechnologyTo ols.pdf

Complete the following activities either individually or in pairs/small groups

ACTIVITY: After reading Slide 5, spend 5-10 minutes to complete and share some ideas as a group.

Go to the ABLE Tech website <u>www.okabletech.okstate.edu</u>

Under "Services", go to "Device Demo and Loan", then Search the Inventory for a lowtech AT example (slant board, magnifier, large print, etc.). Write down the name of a device that a student may be able to use. Then search the inventory for a high-tech example (computer, iPad, communication device, screen reader, word prediction, etc.) Write down the name of a device that a student may be able to use.



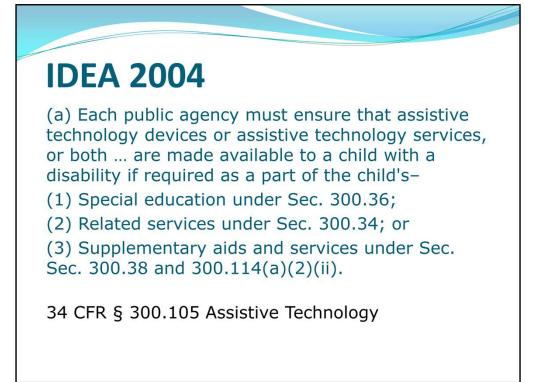
Many children have assistive technology for feeding, hearing or other medical needs. However, the definition does not include a medical device that is surgically implanted, or the replacement of such a device.



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In a moment we will go over IDEA and where to put AT in the Individualized Educational Program.

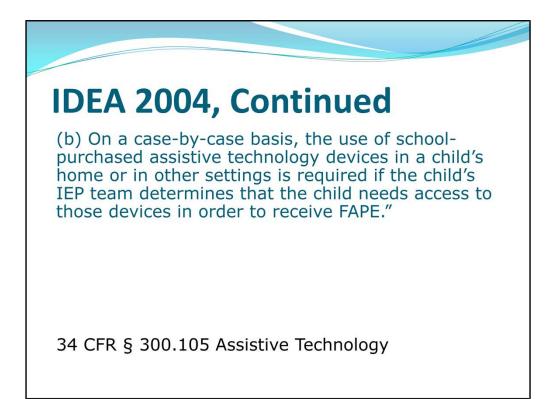
First we'll look at some examples of AT devices and software.



Schools should consider whether or not the student will need the AT in settings other than the classroom.

This includes the playground, lunch room, and at home, for example. It is an IEP team

decision, and the goal should be to help the student achieve a free and appropriate public education.



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decision, and the goal should be to help the student achieve a free and appropriate public education.



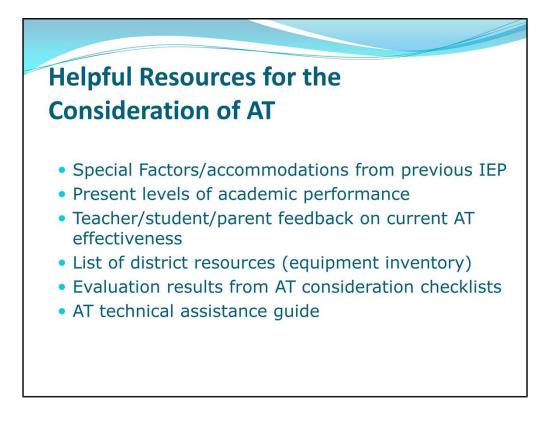
Presenter:

Section 300. 24 relates to Development, Review, and Revision of the IEP. It is the section of IDEA that specifically states that assistive technology must be considered for all students receiving special education services. Notes: the next two slides provide resources helpful to the consideration of AT and AT Examples to address functional impairments.

ACTIVITY:

Complete the following activities either individually or in pairs/small groups. After reading Slide 10, spend 5-10 minutes to complete and share some ideas as a group. Go to the OSDE website or pull out a copy of an IEP to find the page that encourages you to consider the student's need for AT. Answer: Special Factors Page

Where could you expand on details about AT within the IEP? Answer: Special Factors Page, Add a blank page, Present Levels section, Supplementary Aids and Services section, etc.)

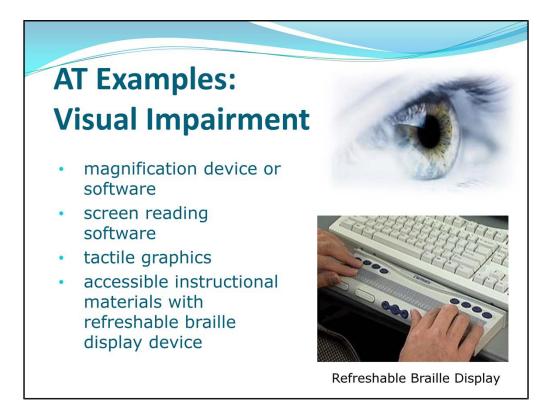


Section 300. 24 relates to Development, Review, and Revision of the IEP. It is the section of IDEA that specifically states that assistive technology must be considered for all students receiving special education services.

ACTIVITY: Watch the "Oklahoma ABLE Tech, Considering the Need for AT in the IEP" 12 minutes



The next few slides will address examples of AT categorized by the functional impairment that each addresses.



AT for visual impairment could include:

 OK ABLE Tech video AT for Visual Impairments or blindness 8 min <u>https://www.youtube.com/watch?v=34hBBYmhNLE&list=PL0gW6noozmWFHWQrxHql4dSHnCcOI</u> <u>enjh&index=3</u>

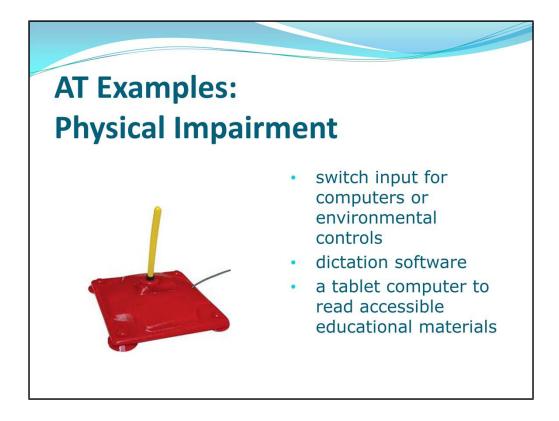
Portable magnifier such as a Ruby, VisioBook, or magnification software such as ZoomText

- 2 min video: Ruby handheld portable magnifier by Freedom Scientific https://www.youtube.com/watch?v=D4VYancDSjc
- 3 min VisioBook video by American Printing House for the Blind https://www.youtube.com/watch?v=aw69TSYUuek
- ZoomText Demo video 2:31 min <u>https://www.youtube.com/watch?v=EEN79RRvKqE</u>
- Screen reading software such as Jaws or the NVDA free or open source screen reader (NonVisual Desktop Access is a free or open source "screen reader" which enables blind and vision impaired people to use computers.)
 - NVDA 2 min video <u>https://www.youtube.com/watch?v=3tY0Uot8LHU</u>
- Tactile graphics- along with the software and hardware needed to produce them and accessible educational materials used in conjunction with a refreshable braille display
 - Tactile Graphics 1.35 min video from Perkisn Vision <u>https://www.youtube.com/watch?v=OUc3-</u> <u>cCTAus&list=PL62D62E1F24108E4C</u>



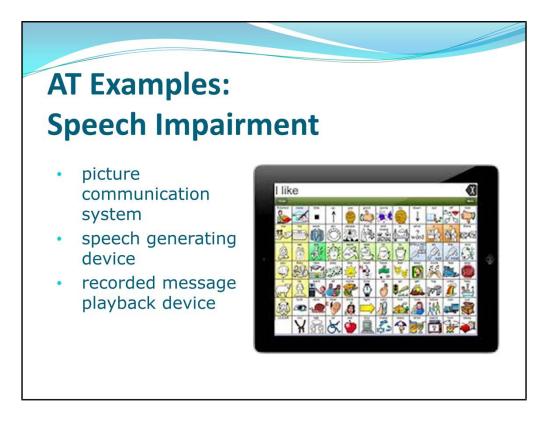
A student with a hearing impairment may benefit from:

- voice to text software to provide the student a readout of what the teacher says
 - Dragon Naturally Speaking 5 min video <u>https://www.youtube.com/watch?v=kJKQmTumFP0</u>
- a vibration alert device
- a personal sound amplification system
 - <u>Digital hearing products for students with concentration difficulties</u> <u>https://www.youtube.com/watch?v=IC2HzJHsm64&list=PLB543500314012645&index=</u> 7
 - Digital amp for Preschool video 1: 38 <u>https://www.youtube.com/watch?v=o3GoxldPLgc&index=4&list=PLB54350031401264</u> <u>5</u>
 - Primary/secondary school uses 1:34 video <u>https://www.youtube.com/watch?v=vQ6asbuU4Hw&index=5&list=PLB543500314012</u> <u>645</u>
- a hearing loop system that works with a student's cochlear implant.
- OK ABLE Tech 8 min video: AT Solutions for Students who are Deaf and Hard of Hearing https://www.youtube.com/watch?v=h1s8WkvhV8U&list=PL0gW6noozmWFHWQrxHql4dSHn C cOlenjh&index=7



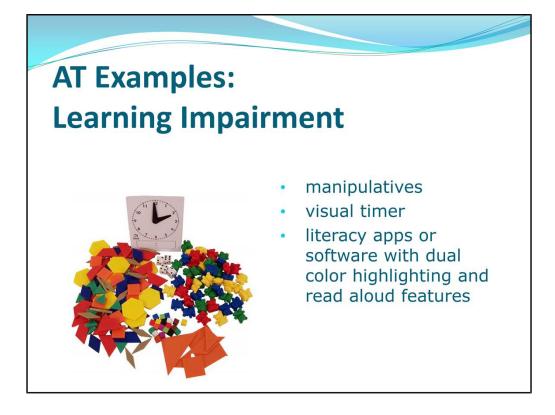
Individuals with physical impairment may benefit from:

- Switch input for computer access or environmental controls- a student might use a switch to operate scissors for instance.
 - 3:54 min video AT in Action Meet Jared a young man with CP who runs his own website/ad business through switch computer access. https://www.youtube.com/watch?v=bYKUxOdUAao
 - Other AT in Action videos Brody, 6th grader using AT to write and participate in class. 3.47 min https://www.youtube.com/channel/UCOmFlteIOXvxWs7TNJOwJ1g
 - 1:06 video student using switch to access iPad https://www.youtube.com/watch?v=Mc6eygC5eQ8
 - Meet Nick, young entrepreneur uses AT to run his own lawn care business <u>https://www.youtube.com/watch?v=n7oYSY_ttU4&list=UUOmFlteIOXvxWs7TNJ</u> <u>Ow J1g</u>
- A student unable to type may use dictation software to complete assignments.
- And a student might use a lightweight mobile device like an iPad or other tablet computer to read accessible digital textbooks.
 - Read2Go app reading a Bookshare book 2:44 min video https://www.youtube.com/watch?v=kcQOmPDjw9g



Examples of AT for speech impairment include:

- A picture communication system- these range from low-tech to high-tech;
- speech generating device- there are many brands and models, as well as an evergrowing number of mobile device apps to consider; and
- a recorded message playback device- such as an iPod or even a cell phone with a voice recording app.
- OK ABLE Tech 15 min video, The Basics of AAC (Augmentative and Alternative Communication) <u>https://www.youtube.com/watch?v=hWefkLfeGv4&index=11&list=PL0gW6noozmWF</u> <u>H WQrxHql4dSHnCcOIenjh</u>

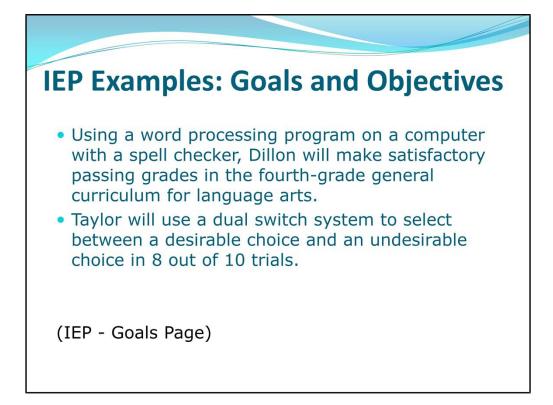


AT for learning includes:

- manipulatives for math or other activities
- a visual timer to help the student stay on task and anticipate events
- Students with learning difficulties may also benefit from literacy apps or software with dual color highlighting and read aloud features.

So, that's a look at some possible devices a student might need. Now let's look at what is required by law.

OK ABLE Tech 6:45 min video AT for Learning and Cognition <u>https://www.youtube.com/watch?v=_ag0SrWJRIo&index=8&list=PL0gW6noozmWFHWQr</u> <u>x Hql4dSHnCcOIenjh</u>

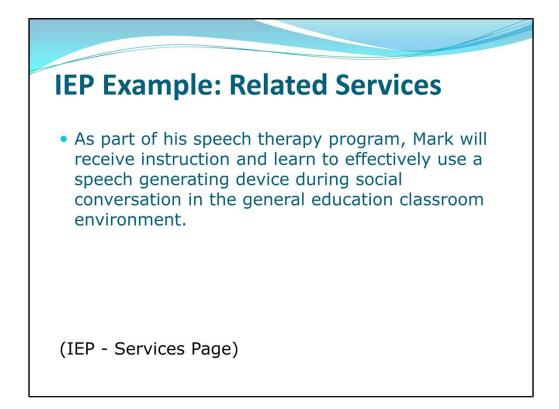


Now we will look at where assistive technology fits in the Individualized Educational Program.

The first section we will consider is Educational Goals and Objectives. For example, you

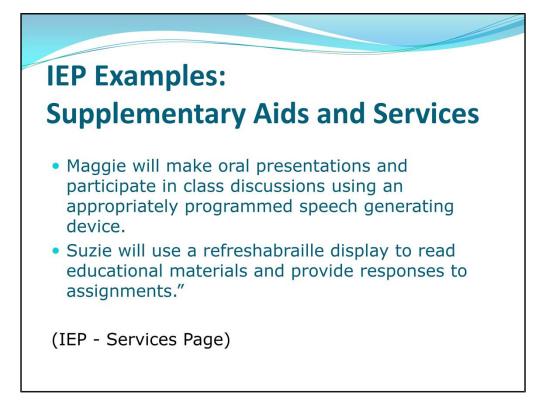
might report that "Using a word processing program on a computer with a spell checker, Dillon will make satisfactory passing grades in the fourth-grade general curriculum for language arts."

Another example is: "Taylor will use a dual switch system to select between a desirable choice and an undesirable choice in 8 out of 10 trials."



Under Related services the team may report that "As part of his speech therapy program, Mark will receive instruction and learn to effectively use a speech generating device during social conversation in the general education classroom environment."

This example fits the provision of related service, rather than a goal because Mark will use a speech generating device as part of his speech therapy program. The speech language pathologist will be responsible to see Mark uses this device during speech and within the general education environment.



An example of supplementary aids and services would be "Maggie will make oral presentations and participate in class discussions using an appropriately programmed speech generating device."

Another example is: "Suzie will use a refreshabraille display to read educational materials and provide responses to assignments."

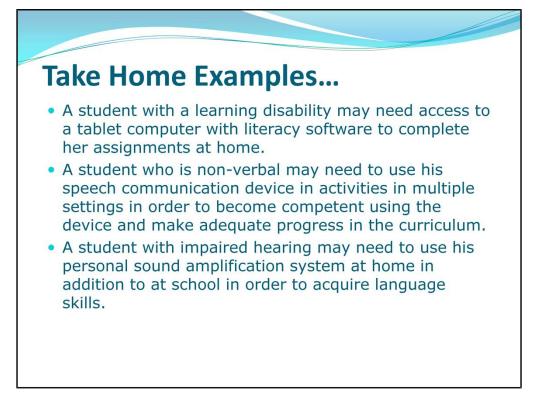


As discussed before

IDEA 2004 Section 300.105 on Assistive Technology says each public agency must ensure that assistive technology devices or assistive technology services, or both, are made available to a child with a disability if required as a part of the child's IEP.

So, When would it be appropriate for AT to go home with a child?

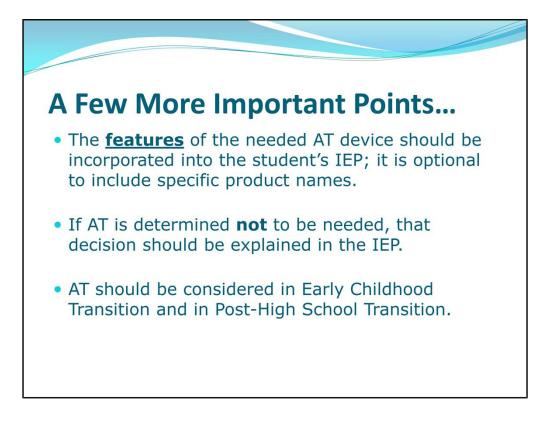
- The IEP team may determine that a student can take their AT devices home:
- if they need at-home access to educational materials in a specialized format that requires an assistive technology device,
- if they need practice using a device in daily activities and multiple settings
- or other purposes as determined by the IEP Team.



Some examples of situations where a student may take an AT device home are:

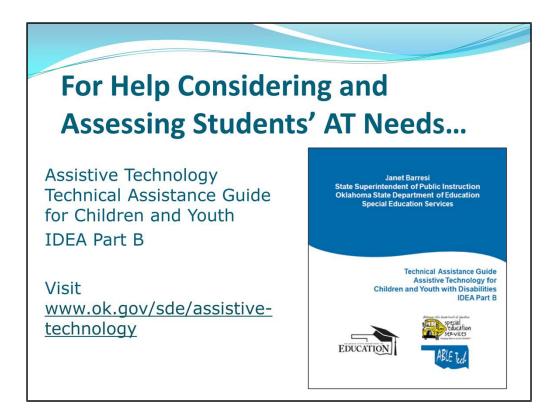
A student with a learning disability needs access to a tablet computer with literacy software to complete her homework. A student who is non-verbal may need to use his speech communication device in activities in multiple settings in order to become competent using the device and make adequate progress in the curriculum.

And, a student with impaired hearing uses his personal sound amplification system at home, in addition to school, to acquire language skills.



A few more points to note...

- The features of the needed AT device should be incorporated into the IEP wherever possible.
- If AT is determined **not** to be needed, that decision should be explained in the IEP.
- AT should be considered in Early Childhood Transition and in Post-High School Transition.



ACTIVITY: For AT resources or help considering and assessing students' AT needs... visit <u>ok.gov/sde/assistive-technology</u>.

Here you will find a variety of resources including the technical assistance document which contains references the IDEA, 504 Plans, Universal Design for Learning, and AT assessment.

ACTIVITY:

After reading Slide 24, Spend 5-10 minutes to complete and share some ideas as a group.

Access the Assistive Technology technical assistance guide either via the OSDE website or the ABLE Tech website.

Write down a resource that would help with the AT Consideration or AT Assessment processes.



Oklahoma ABLE Tech is the statewide Assistive Technology Act Program. They provide a variety of services including an Information Services Program for children and youth served under the IDEA, which is contracted through the Oklahoma State Department of Education.

You can call toll free at 800-257-1705 or 888-885-5588, send an email to <u>abletech@okstate.edu</u> or visit the website at <u>www.okabletech.okstate.edu</u>.

ACTIVITY

After reading Slide 25, spend 5 minutes going to the ABLE Tech website. Write down the steps to filling out a request to borrow an AT device from ABLE Tech.

ACTIVITY

After reading Slide 25, spend 5-10 minutes going to the OSDE website and look at the professional development and technical assistance resources related to AT. Write down the different documents available as a guide for self-assessing your school's AT processes and implementation.