linking research to real life.



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Partners: Texas Assistive Technology Network (TATN) and National Center on Accessible Instructional Materials (AIM)

# oducing the WATI + ATIM Partners

The Tried and True Meets the Brand New





New Modules Available Now!

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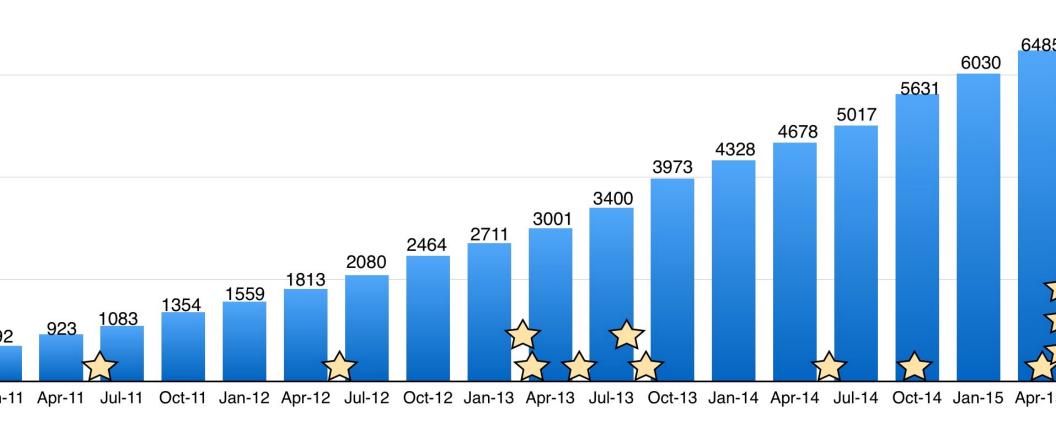
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# **FIM User Stats**

ATIM USERS - QUARTERLY







# ASSISTIVE TECHNOLOGY INTERNET MODULES

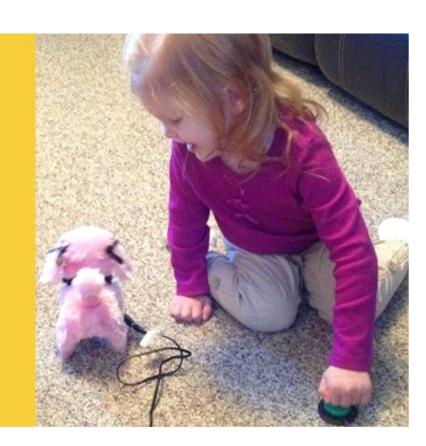
Linking Research to Real Life



# **New Module**

A Family-Centered
Approach to Assistive
Technology in Early
Childhood





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# **Explore Modules Covering a Variety of Topics**

ATIM is designed to provide high-quality information and professional development on assistive technology (AT) for educators, professionals, families, persons with disabilities, and others. Each module guides you through case studies, instructional videos, pre- and post-assessments, a glossary, and much more. ATIM modules are available at no cost. Fee based certificate and credit options are coming soon.

# www.atinternetmodules.org

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your name, emand demographinformation

# Create an Account

Please note: Both Autism Internet Modules (AIM) and Assistive Technology Internet Modules (ATIM) access the same user account database - so if you already have an AIM or ATIM account, you do not need to create a new account - you can simply log in using your email address and password.

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Your Last Name *	
Your Email *	
Confirm Your Email *	heather_bridgman@ocali.org
Enter Password *	•••••
Confirm Password *	
Your State *	
Select One	*

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ASSISTIVE TECHNOLOGY INTERNET MODULES > HELP

available to you to assist while you accessing module

# Help

# General

What are the Assistive Technology Internet Modules (ATIM)?

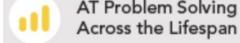
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AT for Early Childhood



AT for Adult Life



Using the WATI Assessment Process



Browse Alphabetically Current Modules (22)

- A Family-Centered Approach to Assistive Technology in Early Childhood
- An Overview of Using the WATI AT Assessment Process
- AT Assessment Process in the School Environment
- AT Assessment Tools
- AT Consideration in the IEP Process
- AT for Administrators
- AT Implementation
- AT Supports and Services in the IEP
- AT Transitions
- Automatic Speech Recognition (ASR) / Speech-to-Text
- Communication WATI Part I
- Computer Access WATI Part I
- Computer Access WATI Part II
- Funding Assistive Technology
- Mobile Device Access WATI Part I
- Mobile Device Access WATI Part II
- Navigating Accessible Instructional Materials
- Overview of Assistive Technology (AT)
- Reading Access WATI Part I
- Reading Access WATI Part II
- Seating and Positioning WATI Part I
- Seating and Positioning WATI Part II

**Upcoming Modules (27)** 

Communication - WATI - Part II

# Module Navi

ASSISTIVE TECHNOLOGY INTERNET MODULES > DASHBOARD

# Dashboard

ACCOUNT I HELP I LOGOUT

ard

Module Navigator

Professional Development Certficates Continuing Education Credits College and University
Course Credit

# Module Navigator

and Integrating

Print Assessment Results

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AT for School Age

AT for School Age

AT Assessment Process in the School Environment

AT Consideration in the IEP Process

AT for Early Childhood

AT Implementation

AT Supports and Services in the IEP

Planning, Designing



Dashboard

Help

ASSISTIVE TECHNOLOGY INTERNET MODULES > DASHBOARD

# Module Description

# Dashboard

Module Navigator

Professional Development Certficates Continuing Education
Credits

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Print Assessment Results

dule Categories

dule Navigator

ome to the Assistive Technology Internet Modules (ATIM)! ATIM is designed to provide high-quality information professional development on assistive technology (AT) for educators, professionals, families, persons with ilities, and others. ATIM modules are available at no cost. Each module guides you through case studies, instructional videos, pre- and post-assessments, a glossary, and much more. If you would like to receive credit for your time on ATIM, certificate and credit options are coming soon, for a fee. Need assistance? Visit the help page.

# AT for School Age

AT Problem Solving Across the Lifespan

AT for Early Childhood

AT for Adult Life

Planning, Designing and Integrating

Browse Alphabetically

# AT for School Age

# AT Assessment Process in the School Environment

After the individualized education program (IEP) team has completed the process of assistive technology (AT) consideration and determined that AT may be a good option for a student, the team then faces the task of assessing the student's needs and abilities to find the most effective AT solution. This module introduces the process of AT assessment including the composition of different types of AT teams, guiding documents and frameworks, feature-matching, equipment trials and recommendations, implementation and transition planning.

Approximate time to complete module: 1 1/2 hours

Author(s): Angela M. Harris, M.S.

Contributor(s): Heather J. Bridgman M.S., ATP, Jan Rogers, MS, OTR/L, ATP

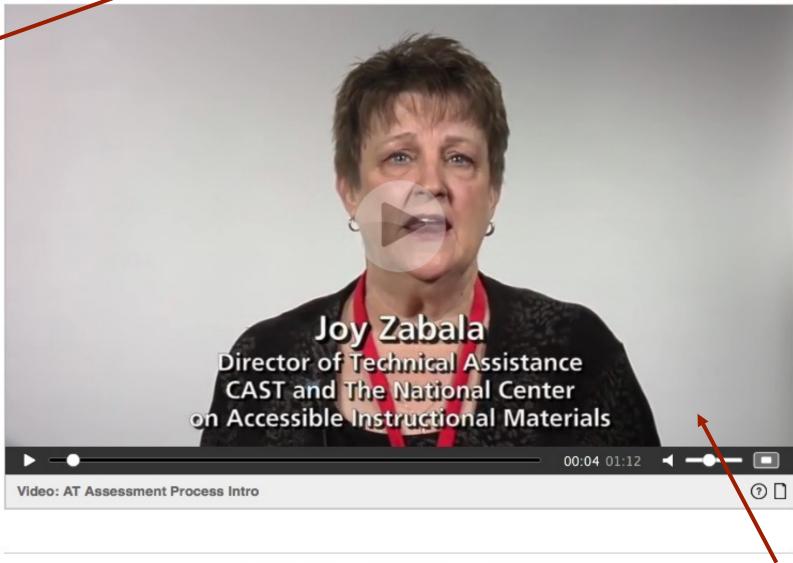
Enter Module

INTERNET MODULES

Organize

DASHBOARD > AT ASSESSMENT PROCESS IN THE SCHOOL ENVIRONMENT

# Introduction



CONTENTS

on ssment

S

iew of AT Consideration

of the AT Assessment

sment - Guiding ats

ducts an AT + ent?

mbers

re Match + ▶

nt Trials and endations

n Planning

dicators of Assistive gy (QIAT) - Assessment

ly Asked Questions

< Previous Page

Page 1 of 29

Next Page:

Video Welco

ashboard

# BLE OF CONTENTS

# troduction

re-Assessment

bjectives

verview

rief Review of AT Consideration

itiation of the AT Assessment rocess

T Assessment - Guiding ocuments

ho Conducts an AT ssessment?

-

eam Members

T Feature Match + >

quipment Trials and ecommendations

T Implementation

ransition Planning

uality Indicators of Assistive echnology (QIAT) - Assessment

ummary

requently Asked Questions

DASHBOARD > AT ASSESSMENT PROCESS IN THE SCHOOL ENVIRONMENT

# Introduction



< Previous Page

Page 1 of 29

Next Page >

# DASHBOARD > AT ASSESSMENT PROCESS IN THE SCHOOL ENVIRONMENT

# Pre-Assessment

Which of the following should be evaluated during AT assessment?

AT assessment is only necessary for students who receive speech-language, occupational therapy, or physical therapy services.

Select your answer \$

To begin the AT selection process, start by looking at the features of available AT and select the tool that is the best fit for the student.

Select your answer \$

The only person qualified to make decisions about AT is an AT specialist.

Select your answer \$

Select all possible members of an AT assessment team.

Select your answer \$

Identify the element among the following that is necessary for a successful AT implementation plan.

Select your answer

Which of the following is not a benefit of progress monitoring?

Select your answer

**Submit Pre-Assessment** 

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e-Assessment

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Assessment - Guiding cuments

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Implementation +
ansition Planning

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mmary

Assessment F Match specialist. Equipment Trials and Your Answer: False Recommendations Correct Answer: False AT Implementation + Select all possible members of an AT assessment team. Transition Planning Your Answer: All of the above Quality Indicators of Correct Answer: All of the above Assistive Technology (QIAT) - Assessment Identify the element among the following that is necessary for a Summary successful AT implementation plan. Frequently Asked Your Answer: Those who work with the student where the AT is used Questions are able to support it's use. Citation and Correct Answer: Those who work with the student where the AT is References used are able to support it's use. Supplementary Which of the following is not a benefit of progress monitoring? Materials Your Answer: Progress monitoring can stop once student performance Post-Assessment has improved. RESOURCES Correct Answer: Progress monitoring can stop once student Glossary performance has improved. Documents Print Assessment Results (PDF)

Discussion Questions

Activities

# Continue to module

board

ASSISTIVE TECHNOLOGY INTERNET MODULES > DASHBOARD

# Dashboard

Module Navigator

Professional Development Certficates

Continuing Education Credits

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Print Assessment Results

# Module Navigator

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AT for School Age AT Problem Solving the Lifespan Early Childhood essment Results Adult Life

> Planning, Designing and Integrating

AT for School Age

AT Assessment Process in the School Environment

AT Consideration in the IEP Process

AT Implementation

AT Supports and Services in the IEP

WELCOME HEATHER
BRIDGMAN
ACCOUNT I HELP I
LOGOUT



Dashboard

Help

ASSISTIVE TECHNOLOGY INTERNET MODULES > PRINT ASSESSMENT RESULTS

# **Print Assessment Results**

AT Assessment Process in the School Environment

• [ PDF ] Post-Assessment (April 29, 2015 - 12:44 pm)

Computer Access - WATI - Part II

• [PDF] Post-Assessment (September 3, 2015 - 8:50 am)

Assistive Technology Internet Modules | ATIM Help Email: atim\_info@ocali.org

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# DASHBOARD > AT ASSESSMENT PROCESS IN THE SCHOOL ENVIRONMENT

# **TechMatrix**

TechMatrix is a website that allows users to identify potential AT solutions by creating a customized search based on the selected features. This website is specifically developed for finding technology options for students with special needs. Once users have clicked on the SEARCH tab, they are able to refine the number of resources by selecting specific information in the following categories:



- Content Area (AT, math, reading, science, writing)
- Grade Level (birth to preschool, early elementary, intermediate elementary, middle school, secondary)
- Role (administrator, parent, professional development coordinator, teacher, technology coordinator)
- Learning Support (alternate-access devices and systems, electronic references and resources, multimedia products and projects, and multiple formats of text and notation)
- Accessibility Features (customizable interface, differentiation, text-to-speech, word prediction)
- National Education Standards (National Reading Panel, National Writing Next, NCTM Content Standards, NSTA Content Standards)
- Tech Specs (connection to computer, cost range, cursor control options, operating systems)

When searching, it is better to start with fewer selections. This increases the liklihood that several results will be found during the search. If the search criterion is too narrow, zero options may be identified during the search.

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# ASSISTIVE TECHNOLOGI INTERNET MODULES

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Assistive and educational technology tools and resources to support learning for students with disabilities and their classmates.

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Search

Glossary

About

Suggest Product

# Welcome to TechMatrix!



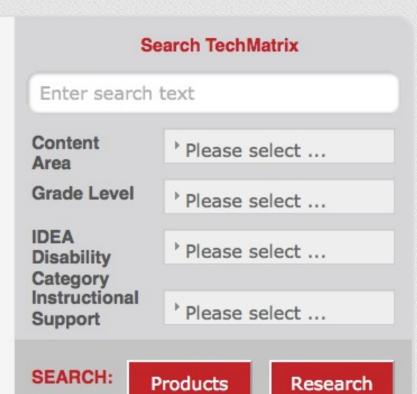
Search a database of over **300 products** using extensive criteria tailored to assistive and educational technologies.



Compare up to four products across search criteria.



Read related **research articles** on the theory and practice of using technology to improve student learning.



• Tech Specs (connection to computer, cost range, cursor control options, operating systems)

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DASHBOARD > AT ASSESSMENT PROCESS IN THE SCHOOL ENVIRONMENT

# Overview

The purpose of assistive technology (AT) assessment is to identify technology options that will accommodate the needs of students with disabilities. Such options should increase, improve, or maintain student functioning in educational, vocational, and community environments. When functional capabilities are enhanced, individuals with disabilities (a) experience greater control of their lives; (b) can contribute more fully to the environment around them; and (c) are better equipped to participate in home, school, work, and/or community settings. AT helps support individuals with disabilities and assists with achieving the four outcomes outlined by the Individuals with Disabilities Education Improvement Act (2004): equal opportunities, full participation, economic self-sufficiency, and independent living. An AT assessment can facilitate the selection of AT options that will contribute to these outcomes.

< Previous Page



Assistive technolo students participa

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During this module, we will (a) provide guidance on how to initiate the AT assessment process, (b) identify potential r the Assistive Technology assessment team and their roles, (c) provide examples of AT assessment frameworks, and you through the process of AT assessment from feature matching to AT acquisition and progress monitoring.

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Page 4 of 29

Next Page >

Considering AT +
Quality Indicators +
Making the Decision +
Consideration vs. Assessment
Consideration Process in Action
Summary
Frequently Asked Questions
Citation and References
Supplementary Materials
Post-Assessment

# RESOURCES

Glossary

Documents

lultimedia Examples

- (2) Consideration of special factors. The IEF team must...
- (v) consider whether the child needs assistive technology devices and services. (IDEA 2004, 300.324)

AT devices include any special equipment or technology that children may need to help them participate in school. AT services are required for the selection, acquisition, and/or use of these devices. The purpose of AT consideration is to determine whether or not AT is needed in order for a student to access a FAPE in the least restrictive environment (LRE).

Click on the video to view an example of a student who has utilized AT for several years to continuously improve her access to FAPE in the LRE.



# BRIDGMAN ACCOUNT I HELP I LOGOUT

Dashboard

Help

# TABLE OF CONTENTS

# Introduction Pre-Assessment Objectives Overview Common Data-Collection Methods Free AT

Student, Environment, Tasks, and Tools (SETT) Framework

Assessment Tools

Scaffold for Gathering Data

Scaffold for Tool + Selection - Part 1: Identifying Tools

Scaffold for Tool + Selection - Part

2: Prioritizing Tools

Human Activity Assistive Technology (HAAT)

WATI / ASNAT

Georgia Project for + Assistive Technology (GPAT)

Protocol for Accommodations in Reading (PAR)

### DASHBOARD > AT ASSESSMENT TOOLS

# Student, Environment, Tasks, and Tools (SETT) Framework

Case Example:

Widely used in school settings, the Student, Environment, Tasks, and Tools (SETT) Framework developed by Joy Zabala (1995) guides the team through the AT decision-making process using a four-part model, which is represented by the acronym SETT. Specifically, it asks the team to consider the Student, Environment, Tasks, and Tools when making AT decisions. The student, environment, and tasks may be closely related; therefore, it is difficult to consider the elements separately or sequentially. Each element has the potential to affect the others, so a change in one element may result in a reconsideration of the others (Zabala, 2010).

The SETT framework is intended to serve as a "home" for the team's discussion and information collection. After the information is gathered and transcribed on the form, all team members receive a copy of the discussion and resulting decisions. SETT forms that assist the team through the AT decision-making process include Scaffold for Gathering Data-Annotated, Scaffold for Tool Selection - Part 1 - Identifying Tools, and the Scaffold for Tool Selection - Part 2 -Prioritizing Tools. SETT framework forms may be found at Joy Zabala's website.

The following is a case study about a ninth grader named Lucille. This case study will be used in the next few sections to demonstrate how the three different SETT forms might be completed.

# Case Study: Lucille

Lucille is a friendly and outgoing ninth-grade student who enjoys show choir and theatre. Lucille participates in the general education curriculum with supports. She is taking college preparatory classes and extracurricular courses in music.

When she was in the third grade, she was involved in a bike accident on the way to her friend's house. Although Lucille recovered from the accident, she



ZOOM @

still suffers long-term affects from the injury. She has been identified has having a mild traumatic brain injury. She also has decreased fine-motor speed and dexterity due to her neurological deficits and, as a result, has difficulty writing. She has been given additional time to complete handwritten

accianments, but this does not exam to halp because of her difficulties with

# Dashboard

Help

# TABLE OF CONTENTS

Introduction	
Pre-Assessment	
Objectives	
Overview	
Common Data-Collection	+
Methods	

Methods	- 10
Free AT Assessment Tools	+
Student, Environment, Tasks, and Tools (SETT) Framework	+
Human Activity Assistive Technology (HAAT)	
WATI / ASNAT	+
Georgia Project for Assistive Technology (GPAT)	+
Protocol for Accommodations in Reading (PAR)	Þ
Commercial AT Assessment Tools	+

Measuring User Satisfaction

Beyond AT Assessment -Education Tech Points

Summary

DASHBOARD > AT ASSESSMENT TOOLS

# Free AT Assessment Tools



The following assessment tools and frameworks are commonly found in educational and medical environments. SETT, HAAT, WATI and GPAT are tools or frameworks that guide the entire assessment process from looking at somebody's needs, the environments in which they are considering AT use, the tasks they need to accomplish, and the features of AT tools that might provide access to these tasks.

The Protocol for Accommodations in Reading (PAR) is also included in this category. While not a comprehensive tool to determine what AT might be needed, PAR provides an in-depth look at reading accommodations, including reading out loud, reading with an adult reader, or reading with a text-to-speech reader. PAR is a unique tool that helps educators make informed decisions about reading accommodations that may become part of the student's IEP.

< Previous Page

Page 9 of 39

Next Page >



DASHBOARD > AT ASSESSMENT TOOLS

# **FAQs**

# CONTENTS

ard

essment

es

ion

. . . . .

Data-Collection

Assessment Tools

cial AT Assessment

ng User Satisfaction

AT Assessment - 
n Tech Points

tly Asked Questions (FAQ)

and References

essment

# Frequently Asked Questions (FAQ)

Is an assistive technology assessment required for every student who receives special education services?

No. The law requires that AT be considered for every student who meets special education requirements. "AT consideration" refers to a brief conversation among IEP team members about the student's needs and abilities. The team determines during this conversation whether or not the student needs AT to accomplish academic tasks or to access the general education curriculum. If the team determines that the student might benefit from AT, but they do not have enough information to make a decision, they may initiate or request an AT assessment to gather more information.

# What information should be gathered during an AT assessment?

An AT assessment should gather information across multiple domains. The team may gather information from multiple environments and sources. Information should be collected about the student's strengths, needs, abilities, and preferences. It is recommended that data be gathered about the following areas when indicated by student need: hearing, vision, seating/positioning, mobility, motor access, academics, written communication, computer-assisted writing, and augmentative/alternative communication.

Is any tool better than another when conducting an AT assessment?

No one tooks necessarily better than another, but teams may have preferences based on the needs of their students. A quality AT assessment tool guides the team through the process of AT assessment and helps the team gather enough data to make vell-informed AT decisions. The tool should be thorough but not overwhelming. An AT assessment tool is only effective if the team finds it useful and uses it to guide them in the AT assessment and implementation process.

What are the key components when considering a tool for an AT assessment?

When considering a tool for AT assessment, the following key components should be considered:

1. Does the assessment take into consideration multiple perspectives (e.g., family, student, teachers, and related



# Citation Referen

DASHBOARD > AT ASSESSMENT TOOLS

# Citation and References

# Citation

If materials from this module are used in presentations or publication, please give credit to the author of the module. Please the citation below to reference this content.

Bridgman, H. J., Harris, A. M., & Rogers, J. (2013). Assistive technology assessment tools: Online training module. In Ohio Center for Autism and Low Incidence (OCALI), Assistive Technology Internet Modules, www.atinternetmodules.org. Columbia OH: OCALI.

# References

Babkie, A. (2013). Data Collection. In S. Henry & B.S. Myles, *The comprehensive autism planning system (CAPS) for individual with autism spectrum disorders and related disabilities: Integrating evidenced-based practices throughout the student's day ed.*; pp. 125-140). Shawree Mission, KS: AAPC Publishing.

Bailey, R. W. (1987). Performance engineering using human factors/ergonomics to achieve computer system usability (2nd Englewood Chris, NJ: Prentice Hall.

Cook, M., & Polgar, J. M., (2008). Cook and Hussey's assistive technologies - Principles and practice, (3rd Edition). Philadelphia, PA: Elsevier, Inc,

Demers, L., Weiss-Lambrous, R., & Ska, B. (2002). The Quebec user evaluation of satisfaction with assistive technology (QUEST 2.0): An overview and recent progress. *Technology and Disability*, *14*, 101-105. Retrieved from https://enablemob.wustl.edu/OT572D-01/RequiredArticles/QUEST%20article.pdf

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# E OF CONTENTS

hboard

-Assessment

ectives

erview

nmon Data-Collection + hods

e AT Assessment Tools +

nmercial AT Assessment +

ls asuring User Satisfaction +

ond AT Assessment - cation Tech Points

quently Asked Questions (FAQ)

tion and References

t-Assessment

nmary

Dashboard	
Help	

### TABLE OF CONTENTS

Introduction  Pre-Assessment  Objectives  Overview  Brief Review of AT Consideration Initiation of the AT Assessment Process  AT Assessment - Guiding + Documents  Who Conducts an AT + Assessment?  Team Members   AT Feature Match + Equipment Trials and Recommendations  AT Implementation + Transition Planning  Quality Indicators of Assistive Technology (QIAT) - Assessment  Summary  Frequently Asked Questions  Citation and References  Supplementary Materials  Post-Assessment	ABLE OF CONTENTS	
Objectives Overview Brief Review of AT Consideration Initiation of the AT Assessment Process AT Assessment - Guiding + Documents Who Conducts an AT + Assessment? Team Members  AT Feature Match + Equipment Trials and Recommendations AT Implementation + Transition Planning Quality Indicators of Assistive Technology (QIAT) - Assessment Summary Frequently Asked Questions Citation and References Supplementary Materials	Introduction	
Overview  Brief Review of AT Consideration  Initiation of the AT Assessment Process  AT Assessment - Guiding + Documents  Who Conducts an AT + Assessment?  Team Members   AT Feature Match + Equipment Trials and Recommendations  AT Implementation + Transition Planning  Quality Indicators of Assistive Technology (QIAT) - Assessment  Summary  Frequently Asked Questions  Citation and References  Supplementary Materials	Pre-Assessment	
Brief Review of AT Consideration Initiation of the AT Assessment Process  AT Assessment - Guiding + Documents  Who Conducts an AT + Assessment?  Team Members +  AT Feature Match +  Equipment Trials and Recommendations  AT Implementation +  Transition Planning  Quality Indicators of Assistive Technology (QIAT) - Assessment  Summary  Frequently Asked Questions  Citation and References  Supplementary Materials	Objectives	
Initiation of the AT Assessment Process  AT Assessment - Guiding + Documents  Who Conducts an AT + Assessment?  Team Members +  AT Feature Match +  Equipment Trials and Recommendations  AT Implementation +  Transition Planning  Quality Indicators of Assistive Technology (QIAT) - Assessment  Summary  Frequently Asked Questions  Citation and References  Supplementary Materials	Overview	
Process  AT Assessment - Guiding + Documents  Who Conducts an AT + Assessment?  Team Members	Brief Review of AT Consideration	
Documents  Who Conducts an AT + Assessment?  Team Members + F  AT Feature Match + F  Equipment Trials and Recommendations  AT Implementation + Transition Planning  Quality Indicators of Assistive Technology (QIAT) - Assessment  Summary  Frequently Asked Questions  Citation and References  Supplementary Materials		
Assessment?  Team Members  AT Feature Match  Equipment Trials and Recommendations  AT Implementation  + Transition Planning  Quality Indicators of Assistive Technology (QIAT) - Assessment  Summary  Frequently Asked Questions  Citation and References  Supplementary Materials		+
AT Feature Match + F  Equipment Trials and  Recommendations  AT Implementation +  Transition Planning  Quality Indicators of Assistive  Technology (QIAT) - Assessment  Summary  Frequently Asked Questions  Citation and References  Supplementary Materials		+
Equipment Trials and Recommendations  AT Implementation +  Transition Planning  Quality Indicators of Assistive Technology (QIAT) - Assessment  Summary  Frequently Asked Questions  Citation and References  Supplementary Materials	Team Members	9
Recommendations  AT Implementation +  Transition Planning  Quality Indicators of Assistive Technology (QIAT) - Assessment  Summary  Frequently Asked Questions  Citation and References  Supplementary Materials	AT Feature Match +	9
Transition Planning Quality Indicators of Assistive Technology (QIAT) - Assessment Summary Frequently Asked Questions Citation and References Supplementary Materials		
Quality Indicators of Assistive Technology (QIAT) - Assessment Summary Frequently Asked Questions Citation and References Supplementary Materials	AT Implementation	+
Technology (QIAT) - Assessment Summary Frequently Asked Questions Citation and References Supplementary Materials	Transition Planning	
Frequently Asked Questions  Citation and References  Supplementary Materials		
Citation and References Supplementary Materials	Summary	
Supplementary Materials	Frequently Asked Questions	
	Citation and References	
Post-Assessment	Supplementary Materials	
	Post-Assessment	

### RESOURCES

Glossary	
Documents	
Discussion Questions	
A sale dales o	



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DASHBOARD > AT ASSESSMENT PROCESS IN THE SCHOOL ENVIRONMENT

# Supplementary Materials



## Books

Friend, M., & Cook, L. (2010). Interactions: Collaboration skills for school professionals (6th ed). Boston, MA: Pearson Education.

### Documents

Canfield, T., & Reed, P. R. (2001). Assistive technology and transition. Madison: Wisconsin Assistive Technology Initiative.

DeCoste, D. C., Reed, P. R., & Kaplan, M. W. (2005). Assistive technology teams: Many ways of do it well. National Assistive Technology in Education (NATE) Network Monograph Series. http://www.natenetwork.org//anuals-forms/team-document.pdf

# Online Resources

Assistive Technology Implementation: Working Together to Make a Masurable Difference

This online module is maintained by the Texas Assistive Technology Network (TATN). Focuses on how to plan for and evaluate the effectiveness of AT implementation.

### AT Consideration in the IEP Process.

Smith, S. J., Earnhart, J., & Welland, N. (2017). Assistive technology consideration in the IEP Process: Online training module. In Ohio Center for Autism and Low Incidence (OCALI), Assistive Technology Internet Modules, www.atinternetmodules.org. Columbus, OH: OCALI.

### AT Implementation Tool.

Part of the University of Kentucky Assistive Technology (UKAT) Toolkit, this document is used by the team to create a plan for AT implementation. Desponsibilities covered include obtaining the AT, provision of training, AT management, evaluation, and progress morning. Columns on the form indicate the team member who is responsible for the task and the target date for completing the task.

### Vial Implementation Tool.

Part of the University of Kentucky Assistive Technology (UKAT) Toolkit, this document was created to facilitate data collection during AT implementation The document is completed by direct service providers and organizes the data collected during AT trials.

### Video

Bowser, G. (2010). Collaboration, consultation and coaching: Strategies for effective assistive technology implementation. [On-line video]. Retrieved from http://www.setbc.org/setbc/curriculum/gayl\_bowser\_implementation.

In this video, Gayl Bowser speaks about practices that lead to effective AT implementation, noting that implementation begins with assessment and a clear picture of what success will look like.

PACER Center (Producer), & Gilormini, B. (Director). (2010). Understanding assistive technology loan libraries [On-line video].



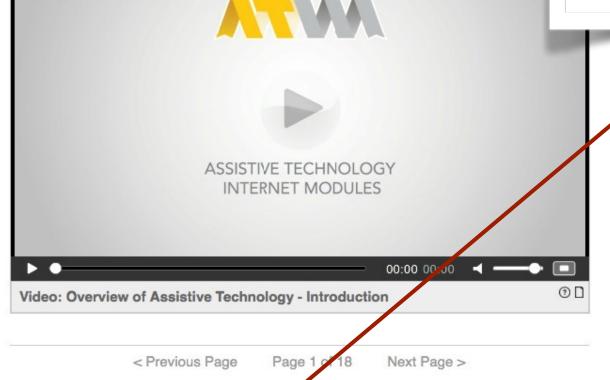
# RESOURCES

Glossary

Documents

Discussion Questions

Activities



Dashboard
Help

Introduction	
Pre-Assessment	
Objectives	
Overview	Þ
History - Federal Legislation	+
Types of AT	
A Continuum of AT Choices	Þ
AT in Various Environments	
Standards of Practice	
Professional Growth	
Opportunities	
AT Certificate and Education	al
Programs	

Program and Self-Assessment

Frequently Asked Questions

Summary

(FAQ)

# DASHBOARD > OVERVIEW OF ASSISTIVE TECHNOLOGY (AT)

# Glossary



# **ABA - Applied Behavior Analysis**

A discipline devoted to understanding and improving human behavior by focusing on defined, observable behaviors of social significance and demonstrating a reliable relationship between the procedures employed and the resulting behavioral change.

# ABC Data Chart

An assessment tool used to gather information about what happens immediately before and after an interfering behavior occurs.

# Abstract

Existing as an idea but not having a physical existence

# Accessible

Capable of being reached, used, seen, understood, or appreciated.

# Accessible Environments

The environment supports the independence of students with vision, hearing, motor, or cognitive disabilities and is designed to be usable and barrier-free to the widest range of student variability.

# Accommodate

To provide something needed or suited, to adapt.

# Accommodations

Adjusting for differences; supplying a need or want; In education, "accommodations" provide equal access to learning, do not substantially change the instructional level or content, are based on individual strengths and needs and may vary in intensity or degree.

Dashboard

Help

# TABLE OF CONTENTS

Introduction	
202 302	
Pre-Assessment	
Objectives	
Overview	
Principles of Assistive	+
Technology Implementation	
Quality Indicators for Assistive	+
Technology (QIAT)	
Revisiting SETT to Establish a	+
Baseline	
Re-SETT: An AT Implementation	+
Framework	
Summary	
Frequently Asked Questions	
Citation and References	
Post-Assessment	

# RESOURCES

Documents

Discussion Questions

Activities

# DASHBOARD > AT IMPLEMENTATION

# Module Documents

[ Download ] Guiding Principles for Assistive Technology

[ Download ] How Do I Know It? How Can I Show It?

[ Download ] QIAT Guiding Document: Assistive Technology Implementation

[ Download ] QIAT Guiding Document: Evaluation of Effectiveness

[ Download ] QIAT Self-Evaluation Matrices for the Quality Indicators in Assistive Technology Services

[ Download ] QIAT Self-Evaluation Matrix for Evaluation of Effectiveness of AT

[ Download ] QIAT Self-Evaluation Matrix for Implementation

[ Download ] Quality Indicators for Assistive Technology Implementation

[ Download ] Quality Indicators for Evaluation of the Effectiveness of Assistive Technology

[ Download ] SETT and ReSETT: Concepts for AT Implementation



Texas Assistive Technology Network (TATN)

Docume

Dashboard Help

# TABLE OF CONTENTS

Introduction	
Pre-Assessment	
Objectives	
Overview	
Principles of Assistive	+
Technology Implementation	
Quality Indicators for Assistive	+
Technology (QIAT)	
Revisiting SETT to Establish a	+
Baseline	
Re-SETT: An AT Implementation	1 +
Framework	
Summary	
Frequently Asked Questions	
Citation and References	
Post-Assessment	

# RESOURCES

Glossary
Documents
Discussion Questions
Activities

INTERINET MODULES

# Discussion Question

# DASHBOARD > AT IMPLEMENTATION

# Discussion Questions

[ Export PDF with Answers I Export PDF without Answers ]

1. What are the expected results of effective AT implementation?

The effective use of AT has the potential to increase a student's achievement in academic areas like reading, writing, and math and improve functional performance areas such as motor skills, activities of daily living, and self-help skills. Ideally, the use of AT results in a student's increased participation, achievement, and access to the general curriculum.

2. Discuss the four basic principles that form the foundation for AT implementation.

Each principle is discussed separately.

1. AT Implementation involves the use of AT devices and services to promote student achievement.

Increased student achievement and functional performance is the critical outcome of AT implementation in educational settings. Effective AT implementation that leads to this outcome involves not only AT devices and services but also may involve many instructional and therapeutic strategies. The purpose of AT use is to eliminate or reduce barriers and to enable students to accomplish IEP goals and make progress in the general curriculum.

2. AT Implementation focuses on functional areas of concern when and where they occur.

Throughout consideration and evaluation, the IEP team thinks about and gathers information about areas of concern that present barriers to the student's achievement. As the team moves to planning for implementation, it is important to give thought to when and where those areas of concern occur for the student in school, home, and community settings to ensure that implementation takes place at those times and in those places whenever possible.

AT Implementation is an ongoing process that involves all those who work with the student.

In order to be effective, AT use is integrated into the curriculum across environments, and everyone working with the student needs to support the implementation. No one team member is responsible for providing all the support; rather, all team members are responsible for providing support and guidance when working with the student. Effective implementation involves continuous monitoring of progress and application of needed improvement in the student's AT use by all who come in contact with the student.

4. AT Implementation requires a plan that is collaboratively developed by all who will be involved.

Dashboard Help

### TABLE OF CONTENTS

Introduction Pre-Assessment Objectives Overview Principles of Assistive Technology Implementation Quality Indicators for Assistive Technology (QIAT) Revisiting SETT to Establish a Baseline Re-SETT: An AT Implementation + Framework Summary Frequently Asked Questions Citation and References Post-Assessment

### RESOURCES

Documents
Discussion Questions
Activities

### DASHBOARD > AT IMPLEMENTATION

# **Activities**

Activities on this page are provided at both the introductory and advanced level allowing the user to target specific needs.

Activities can be copied and used within an existing platform such as Blackboard or WebCT. In addition, a general email link has been provided. Participants can send their activity response directly to another person (such as a professor or staff developer) by clicking the "Respond" link below.

# Introductory Activities

1. Functional, Operational, Strategic and Social Skills

Think of a student that you know who uses AT. List new skills that this student needs to learn in the areas of functional skills, operational skills, strategic skills, and social skills.

2. Change is Necessary for AT Implementation

Think of a student that you know who uses AT. What changes in the student, environment, tasks and tools would be needed for effective AT implementation?

# **Advanced Activities**

1. QIAT Self-Evaluation Matrix for Implementation

The QIAT Self-Evaluation Matrices were developed as a companion to the QIAT indicators and intent statements. The matrices can be used as a model for assessing the current status of practice and as a guide for improvement planning. Download the QIAT Self-Evaluation Matrix for Implementation from the Document section and use the matrix to assess the current status of service delivery relative to your AT team (or on your campus or in your district). In a brief paragraph, describe the plan you would develop to improve service and how you would share it with your administrator.

2. QIAT Self-Evaluation Matrix for Evaluation of Effectiveness of AT

The QIAT Self-Evaluation Matrices were developed as a companion to the QIAT indicators and statements. The matrices can be used as a model for assessing the current status of practices improvement planning. Download the OIAT Self-Evaluation Matrix for Evaluation of Effectivene

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decement section and use the matrix to assess the current status of service delivery relative to your AT team (or on your campus or in your district). In a brief paragraph, describe the plan you would develop to improve service and how you would share it with your administrator.

# [Respond]

Dashboard

Help

# TABLE OF CONTENTS

Introduction
Pre-Assessment
Objectives
Overview
Definition and Purpose
Considering AT +
Quality Indicators +
Making the Decision +
Consideration vs.
Assessment
Consideration Process
in Action
Summary
Frequently Asked
Questions

# DASHBOARD > AT CONSIDERATION IN THE IEP PROCESS

# AT Consideration in the IEP Process - Activity Response

When submitted, this form will send an email to the recipient listed below. The contents of the email will be whatever text is entered into the "Activity Response" area. You will also receive a carbon copy (CC) of any email generated at the email address associated with your account.

Recipient Email Address \*

**Activity Response \*** 

Activity Response Options

# Dashboard

Module Navigator

Professional Development Certificates Continuing Education Credits College and University Course Credit

# College and University Course Credit

This section allows you to earn college/university course credit and track your course progress. **Need assistance with this process?** Visit the help page or contact atim\_course@ocali.org.

Explore Courses

Your Courses

Profile

# **Explore Courses**

Assistive Technology (AT) in Education

ASHLAND

October 19 - November 20, 2015

Credit offered by Ashland University | Credits: 1 | \$225.00

Only 40 spots left | Capacity: 40 registrants

This on-line 5 week course uses the Assistive Technology Internet Modules (ATIM:www.atinternetmodules.org) to provide participants with an overview about assistive technology assessment and interventions for early childhood and school-age children. Participants in this course will learn about the various domains of AT and needed administrative support, AT assessment tools and processes, consideration and documenting AT in the IEP and IFSP, AT implementation, AT transition planning and AT funding strategies. After completing the two part registration process, first using the Ashland University system, and then on the ATIM website (www.atinternetmodules.org), you will have access to the course in the College University Course Credit section of the ATIM dashboard found on the ATIM website when the course begins. For more information, please contact atim\_course@ocali.org.

View Details

Register

Need help registering? Visit the help page.



Linking Research to Real Life



# OCAL)

linking research to real life.