

# Wireless Technologies At Agriculture ITO Assistive Technology

Deana Szeto and Jennifer Haydon

• AT in the classroom setting has made an important improvement for students with disabilities to learn in different ways.  
 • Efforts toward having these types of technological devices in schools reflect a movement toward better understanding relationships between specific technology applications and positive classroom outcomes for students with disabilities.

**Where can assistive technology be used?**  
 Home and School Environment  
 School is a popular setting for students because it's where children have highest demands  
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**Who is assistive technology for?**  
 People with disabilities  
 Multisensory a key word  
 TheCaseSolutions.com



**Two Types of AT**  
 Text-to-Speech  
 Computer Usage  
 TheCaseSolutions.com

**Social Emotional**  
 TheCaseSolutions.com

**Reading Children**  
 TheCaseSolutions.com

• Scheja, Lisa Behrmann, and Susan (2009)  
 • examined the success of speech-generating devices in classroom performance based on four children with autism  
 • Purpose of this study was to find evidence regarding the effectiveness in a public school setting  
 • Outcomes AT provided helping all students open up to enhance their performances  
 • Students in special education received interventions provided by AT devices



• Roschelle, et al (2001)  
 • compared both group and individual feedback with the use of two different types of technology  
 • TheCaseSolutions.com



**Computer Usage**  
 TheCaseSolutions.com

**Activity Design on Assistive Tech Device**  
 Philip is a kindergarten. He uses a wheelchair because he can't walk. He can't talk and has difficulty using his hands.  
 Philip wants to talk to others and participate in daily activities.  
 TheCaseSolutions.com

**Assistive Tech in Education**  
 AT has increased the ability for students with disabilities to learn and relate to others in the classroom setting.  
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**Let's hear from you! Pair Share**  
 What do you know about assistive technology?  
 Do you or someone you know, have a disability?  
 What's your experience working with children with disabilities?  
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**What is Assistive Technology?**  
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**How does assistive technology affect children's development?**  
 • Social-emotional development  
 • In education  
 TheCaseSolutions.com

**Text-to-speech**  
 • Scheja, McCollum, Hsieh, Chhabra, and Singua (2007)  
 • Examined 4 students battling while reading, learning, and silent reading  
 • Study looked at what would happen if listening while reading was extended  
 • They found text-to-speech improved reading comprehension  
 • When students listen while reading the text, it helped them process information easier  
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**Students and Teachers Perceptions about AT**  
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**Where can assistive technology be used?**  
 Home and School Environment  
 School is popular setting for students because it's where children have highest demands

**Who is assistive technology for?**  
 People with disabilities  
 Multi-sensory or low-cost alternatives  
[www.thecasesolutions.com](http://www.thecasesolutions.com)



**Two Types of AT**  
 Text-to-Speech  
 Computer Usage

**Social Emotional**

**Reading Children**

• Schep, Lisa Benmann, and Susan King  
 • examined the success of speech-generating devices in classroom performance  
 • based on how children with autism  
 • Purpose of this study was to find evidence regarding the effectiveness of a public school setting  
 • Custom AT provided helpful students ages 3-5 improve their performances  
 • Students in special education received interventions provided by AT devices



**Computer Usage**

• Roschelle, et al (2001)  
 • compared both group and individual feedback with the use of two different types of technology



**Activity: Design an Assistive Tech Device**  
 Philip is a kindergartener. He uses a wheelchair because he can't walk. He can't talk and has difficulty using his hands.  
 Philip wants to talk to others and participate in daily activities.

**Assistive Tech in Education**  
 AT has become the ability to interact with devices by sound and video to help solve the student's coding

**What is Assistive Technology?**

**Let's hear from our Pair Share**  
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 What's your experience working with children with disabilities?  
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 • Examined 4 students' behavior while reading, learning, and silent reading  
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**Students and Teachers Perceptions about AT**



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# *Let's hear from you!*

## *Pair Share*

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What do you know about assistive technology?

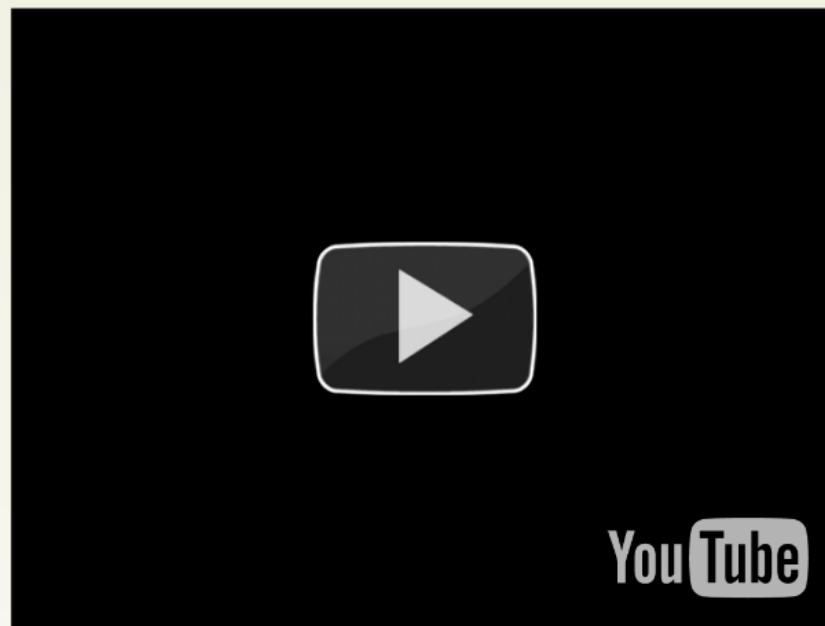
Do you, or someone you know, have a disability?

What's your experience working with children with disabilities?

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# *What is Assistive Technology?*



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**ASSISTIVE TECHNOLOGY**

## *Who is assistive technology for?*

People with disabilities

Much research is from users'  
perspectives

[http://childtrends.org/?  
indicators=children-with-limitations](http://childtrends.org/?indicators=children-with-limitations)

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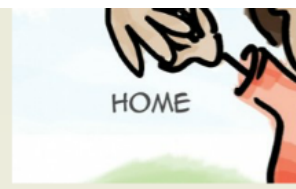
# *Where can assistive technology be used?*

Home and School Environment

School is a popular setting for studies because it's where children have highest demands



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## *How does assistive technology affect children's development?*

- Social-emotional development
- In education

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**Who is assistive technology for?**  
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 Many assistive tech users are children



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**Social Emotional**

**Reading Children**

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 • compared both group and individual feedback with the use of two different types of technology

**Computer Usage**

**Effectiveness AT Use in classroom**

**Students and Teachers Perceptions about AT**

**How does assistive technology affect children's development?**  
 • Social-emotional development  
 • In education

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**Assistive Tech in Education**  
 AT provides support for children with disabilities by using and adapting tools to the student's setting  
 Philip is a kindergartener. He uses a wheelchair because he can't walk. He can't talk and has difficulty using his hands.  
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 • Documented 4 students' beliefs while reading, learning, using, and using reading  
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