Research shows that assistive technology (AT) can help young children with disabilities to learn developmental skills. Its use may help infants and toddlers to improve in many areas:

- social skills including sharing and taking turns
- communication skills
- attention span
- fine and gross motor skills
- self confidence and independence

The right type of assistive technology can improve a child's ability to communicate. This in turn may help reduce some negative behaviors. Examples of common assistive technology devices include wheelchairs, computers, computer software, and communication devices.

Q Why is assistive technology important?

A Many of the skills learned in life begin in infancy: AT can help infants and toddlers with disabilities learn many of these crucial developmental skills. With assistive technology they can often learn the same things that non-disabled peers learn at the same age, only in a different way. Communication skills at this age are especially important since most of what an infant or toddler learns is through interacting with other people. This is especially true with family members and other primary caregivers. Sometimes parents are reluctant to begin using an AT device. They may believe it will discourage their child from learning important skills. In truth, the opposite may be true. Research has shown that using AT devices, especially augmentative communication devices, may encourage a child to increase communication efforts and skills. The earlier a child is taught to use an AT device, the more easily the child will learn to accept and use it.

Assistive technology is also important because expectations for a child increase as he or she grows. Those around the child learn to say, "This is what the baby can do, with supports," instead of, "This is what the baby can't do." With assistive technology, parents learn that the dreams they had for their child don't necessarily end when he or she is diagnosed with a disability. The dreams may change a little, but they can still come true.

Q How can a family obtain AT devices for their infant or toddler?

A There are two ways. First, infants and toddlers who have a disability may be eligible for early intervention services under Part C of

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benefit from using an AT device? Many schools and communities have special lending libraries where parents can borrow toys with switches, computer software, and other devices. These libraries, such as the Tech Tots libraries sponsored by United Cerebral Palsy chapters around the country, give parents an opportunity to try various devices before deciding whether to purchase them.

If my young child is not eligible for early intervention services under IDEA, how will I know if she could still benefit from using an AT device?

Asking certain questions may help you make that decision. Some examples:

- Compared to other children of the same age, can my child play with toys independently?
- Can my child communicate effectively?
- How does my child move from place to place?
- Can my child sit, stand, or walk independently?
- Is my child able to feed himself or herself?

If you answer “No” to these questions, then assistive technology may help. In some cases, children with behavior problems actually have a communication impairment. They are frustrated that they cannot tell someone how they feel, and act out instead.

What is assistive technology for children who are eligible for early intervention under IDEA?

IDEA defines an assistive technology device as “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 a disability.” Under IDEA, assistive technology services are any services that directly assist a child with a disability to select, acquire or use a device. AT services include:

- finding and paying for an assistive technology device
- selecting and making a device work (modifying, customizing, etc.) for a child
- repairing or replacing a device
- coordinating and using other therapies or services with AT devices
- evaluating the needs of a child with a disability, including a functional evaluation of in the child’s natural learning environment
- training or technical assistance for a child or that child’s family; and
- training or technical assistance for professionals.

How does a parent request an AT evaluation under IDEA?

An AT evaluation should be included as part of an early intervention evaluation if there is reason to believe the child may need an AT device or service. However, parents may request AT evaluation at any time. Parents and family members, such as siblings or grandparents if appropriate, should be involved in the entire process. Families have important information about their infant or toddler. When parents and family members are actively involved it is more likely that the child will get the right device and that it will be used properly.

What is the most effective way to evaluate an infant or toddler for an AT device or services?

Ideally, a multi-disciplinary team will do an AT evaluation. Often this team will include an assistive technology specialist. This person should have a broad understanding about different kinds of technology, adapted toys, learning tools, communication devices and other adapted equipment. A member of the team should also understand how technology may be used in all areas of a child’s life to support developmental outcomes. This person should also have knowledge about infant and toddler development.

Before the evaluation takes place, team members should gather information about the child's interests, abilities, and family routines. This will help to determine what type of AT devices might be used during the evaluation. The evaluation is usually done in the environment where the child spends the most time. For infants and toddlers, this may be the family home or a childcare setting.
When the evaluation is finished, the evaluator will recommend any devices or services that will help the child reach the expected outcomes. Any devices recommended should be easy for the family and other caregivers to use.

An important part of the evaluation is its focus on a child’s strengths and abilities. For example, if an infant with Cerebral Palsy can only wiggle her left foot, then being able to wiggle that foot is considered a strength. Any AT device should build on this strength. In this case, a switch could be positioned so that every time the infant wiggled her foot a music box would play. Creativity is a must when thinking about AT for children who have significant impairments! Parents and other primary caretakers are great resources.

**Q** Under IDEA, where can assistive technology devices and services be provided?

**A** Early intervention services must be provided in natural environments to the extent appropriate. This would include the child’s home, childcare setting, or other community settings where children without disabilities are found. It is the responsibility of the IFSP team to determine—based on evaluations and assessments—what services will meet the child’s needs. These services, including assistive technology, will be written in the child’s IFSP.

As a part of the decision-making process around assistive technology, the team will discuss where AT devices and services will best meet the child’s needs (home, childcare, etc.). As children move from one service to another, everyone involved with the child should know what AT devices the child is using and how to obtain and use them. For example, if a two-and-a-half year old child is receiving early intervention services and will move to preschool at age three, the need for AT should be discussed at the transition planning conference. This will help to ensure that the child’s access to assistive technology does not have gaps.

**Q** Under IDEA, who pays for assistive technology devices and services?

**A** All early intervention services, including AT devices and services, must be provided at no cost to the family unless a state has established a system of payment for early intervention services.

**Q** What types of training can be provided under IDEA?

**A** In general, parents, service providers, childcare providers and others who work with infants and toddlers and their families should be trained to use the AT device. Training could include:

- basic information about the device, how to set it up, and how it works
- how the device can be used in all parts of the child’s life
- how to know when something is wrong and how to fix minor problems
- what to do or where to take the device if there is a major problem
- how to change or adapt the device for a child as he grows or as activities become more complex. Parents and service providers who are trained and comfortable with the device are more likely to find creative ways to use it in all areas of a child’s life. The need for training, including who will provide the training, should be included in the child’s IFSP.

**Q** Where can parents get more information about assistive technology or IDEA?

**A** Parents may call the Parent Center that serves their area. Contact information may be found at [www.taalliance.org](http://www.taalliance.org). The portion of IDEA that deals with assistive technology for infants and toddlers is found in 34 Code of Federal Regulations (CFR), part 300 of the regulations implementing IDEA 2004. Other resources are also available:

**Technical Assistance ALLIANCE for Parent Centers**

**National Technical Assistance Center**

Tel: (888) 248-0822

Web site: [www.taalliance.org](http://www.taalliance.org)

**ATA—Alliance for Technology Access**

ATA is composed of networks of community-based residence centers, developers and vendors, affiliates, and associations.

Tel: (707) 455-4575

E-mail: ATainfo@ATAccess.org

Web site: [www.ataccess.org](http://www.ataccess.org)

**Closing the Gap**

Tel: (507) 248-3294

Web site: [www.closingthegap.com](http://www.closingthegap.com)

**Family Center on Technology and Disability**

Tel: (202) 884-8068

E-mail: fctd@aed.org

Web site: [www.fctd.info/](http://www.fctd.info/)
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