

Consideration of AT devices within natural routines for young children

Meals/Snacks	Bath/ Grooming	Changing/Bedtime	Play Time	Book Reading	Expressive Arts	Early Writing	Early Math
<ul style="list-style-type: none"> • Adaptive bottles/cups (special nipple, cup cut-out) • Adaptive utensil (curved handle) & dish (plate guard) • Sandwich holder • Hand wrap/ universal cuff for holding • Switch-operated feeding device • <i>CS -- food choices, manners and "blessing"</i> 	<p>Adaptive tub seating(chair, inflatable tub)</p> <ul style="list-style-type: none"> • Adaptive bathing aid (mitt, scrub brush) • Toys: floating, suction cups • Adaptive hair and tooth brush (curved, enlarged handle) • Switch adapted toothbrush • Adaptive toothpaste dispenser • Adaptive stool, potty chair • <i>Laminated CS - body parts and play choices</i> 	<p>Dressing Aid (zipper pulls, Velcro closures, elastic shoelaces)</p> <ul style="list-style-type: none"> • Room Adaptation (single touch/clapper light dresser pull grip, labeled drawers) • Adaptive bedding (sleep positioner, weighted blanket) • <i>Mounted CS -- notify, "I'm up!", family routines</i> 	<ul style="list-style-type: none"> • Toys with large buttons, knobs, dials; multi-sensory features • Toy adapted with Velcro, suction cups, magnets, etc. • Toy/game adapted for single switch use • Switch interface (timer, appliance, latch) • Adaptive toy (beeping balls, glitter roll) • Adaptive riding toy, swing • Software: cause/effect, drawing, games • <i>CS -- play choices, comments + interactions</i> 	<p>Apron/vest with story pictures, symbols</p> <ul style="list-style-type: none"> • Book: cardboard, Big Books, talking, tactile, scented & object books, book on tape/CD • Book adapted with page turner, texture, text label (symbols, Braille) • Book holder • Switch-operated recordable device (book, single phrase) • Portable touch activated reading & learning system • Interactive TV software • Software: nursery rhymes, stories; • <i>CS --story choice, re-telling, participating</i> 	<p><u>Drawing</u></p> <ul style="list-style-type: none"> • Variety of large crayons, markers, brushes, rollers • Adapted grips, weights • Adapted easel, spill-proof paint • Adapted scissors • Switch spin art, electronic scissors • Software: drawing, stamps, graphics <p><u>Music</u></p> <ul style="list-style-type: none"> • Adapted instruments • Switch adapted music player • Software: music, songs with slow rate <p><u>Dramatic Play</u></p> <ul style="list-style-type: none"> • Accessible toy, puppet, environment • Adaptive dress-up clothing; Velcro closure • <i>CS --choices, sequences and comments</i> 	<ul style="list-style-type: none"> • Variety of large crayons, markers, pencils • Adaptive writing tool (grips, weights) • Hand wrap/ universal cuff for holding, arm support • Adaptive paper/ outlines (raised, color lines) • Tracing template • Slantboard/ clipboard, easel • Adaptive rubber stamp • Software: word+picture, large letters, create books • <i>CS -- requests and comments</i> 	<ul style="list-style-type: none"> • Large beads and counters, blocks (Velcro, magnetic), pegboards and puzzles • Adapted measuring tool • Abacus • Large button/display talking calculator • Interactive TV program • Computer • Play-set: kitchen, building • Software: building, sorting, counting • <i>CS -- counting, requests and comments</i>

CS= Communication System

General consideration of options for AT devices for young children

Positioning	Mobility	Communication	Going Places	Computer Use	Hearing	Vision	Adaptive Materials
<ul style="list-style-type: none"> • On Back: mat, wedge, boppy, beanbag chair • On Tummy: wedge, round pillows • On Side: wedge, rolled towel, sidelyer • Sitting Up: boppy, booster chair, adaptive chair, floor table; foam, non-slip material, foot block • Standing Up: exersaucer, stander • Custom fitted chair, stander • Adjustable aids: neck/head rest, lap belt, foot strap, chest harness 	<ul style="list-style-type: none"> • Crawling: padded, textured flooring; crawling support frame • Walking: walkers/gait device, wheeled stander; weighted vest, ankle-foot brace • Riding: stroller, manual & electric wheelchair, switch controlled motorized scooter adaptive bicycle • Switch adapted rider/scooter 	<ul style="list-style-type: none"> • Visual schedule, calendar, lists • Boards with objects, photos, pictures, symbols • Wallet, vest, eyegaze frame • Auditory listening device <u>Voice Output Devices</u> • Single message device; recordable picture frame • Multi-message (2,4,8, 12, 32) device for choice making, activity specific • Device with levels • Device with dynamic screen, direct+scanning • Software: develop communication overlays, systems 	<ul style="list-style-type: none"> • Adaptive carrier, car seat, bed, tray footrest • Adaptive stroller (lightweight, allterrain) • Wheel chair lift, ramp • Accessible book, toy for car play • Mounting system for bottle, cup, switch, device • Portable Communication System for comments, questions, songs 	<ul style="list-style-type: none"> Keyboard: pointing aid, keyguard, key labels (large, Braille letters), play-set, alternate and customized keyboard, keyboard overlay with objects/pictures/ words, switch + switch interface • Mouse: adapted mouse, touch screen, trackball, joystick, mouse keyboard • Large monitor, speakers, mic, color printer, Graphic/ Braille embosser • Digital microscope • Child and computer positioning aids 	<ul style="list-style-type: none"> • Materials with visual and tactile features • Headphones, speakers at computer • TV, phone amplifier • Assistive listening device; hearing aid • FM or loop system 	<ul style="list-style-type: none"> • Magnifying glass, sheet • Glasses, tinted glasses • Materials with large print, lights, sound + texture • Backgrounds for high contrast • Easels (stand, desktop) • Adaptive pre-cane mobility (push cart) • Books on tape/CD • Labeled item; tactile materials and Braille labeler • Light box • Raised line drawings • Video magnifier 	<ul style="list-style-type: none"> • Attach: links, cuff with Velcro to pick items up, colored Velcro strap, shoelace, magnet • Confine: boxtop, basket, tray, hula hoop • Enlarge: adapted page turner, cylindrical foam tubing, puzzle knob • Label: textures, colors, pictures, picture symbols, words • Stabilize: Velcro/showloop, dycem, non-slip, clamp, suction cup

Source: *Every Kid Can: Technology Supports for Young Children. Mistrett, Ruffino, Lane, Robinson, Reed, & Milbourne (2004).*