

### Augmentative and Alternative Communication (AAC):

- Augmentative and alternative communication (AAC) refers to a strategy that helps an individual who cannot speak, or who is hard to understand, to communicate.
- The goal of AAC is generally to achieve the most effective communication possible for the individual.
- · For many, AAC is multi-modal.



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# What is AAC?

 "AAC refers to an area of research, clinical, and educational practice. AAC involves attempts to study and when necessary compensate for temporary or permanent impairments, activity limitations, and participation restrictions of individuals with severe disorders of speechlanguage production and/or comprehension, including spoken and written modes of communication"



• Beukelman & Mirenda, 2013





# What are forms of AAC?

· AAC includes:

writing
pictures
symbols
photos
signs

gestures



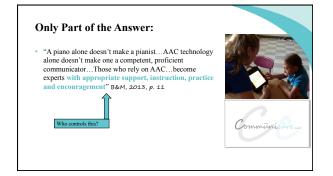


### What is the goal of AAC?

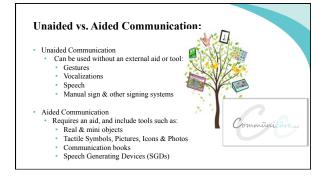
- The goal of AAC is to achieve the most effective communication possible. AAC "enable[5] individuals to efficiently and effectively engage in a variety of interactions and participate in activities of their choice" • B&M, 2013, p. 8
- Communicative interactions include (Light, 1988):
   Communication of needs/wants
   Information transfer
   Social closeness
   Social etiquette

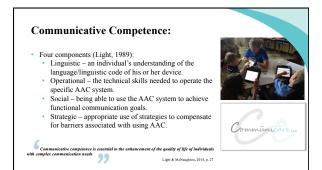












### Linguistic Competence:

Refers to an individual's receptive and expressive language skills and knowledge of the linguistic code unique to one's AAC system.



#### You need to be able to:

- Provide ongoing opportunities for practice using AAC
  Provide receptive input strategies (AAC modeling)
  Have an understanding of the linguistic code of the
- system



# **Operational Competence:**

- Is the technical skills needed to operate the AAC system. Usually facilitators are trained, but AAC users need the knowledge too.
- You need to be able to: Update vocabulary
- Program as needed Protect the tools
- Secure repairs
  Modify the system
  Ensure availability and operation





# Social Competence:

Social interactions such as initiating, maintaining, developing, and terminating communication interactions.



- You need to be able to: How to adjust your conversational style About different systems (i.e., high-tech vs. low-tech) How to support an individual's ability to engage in interestinger. interactions

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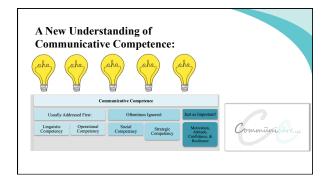
# Strategic Competence:

Involves the compensatory strategies used by individuals using AAC to account for the limitations associated with AAC – "communicate effectively within restrictions."



- You need to be able to: Facilitating communication with unfamiliar partners Repairing communication breakdowns Compensating for a slow speaking rate Adaptive and coping strategies



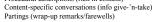




### Message Management:

- Is the formulation, storage, retrieval of single words, linguistic codes, and messages to support communication, which involves: • Greetings (essential to initiation of an interaction)

  - Small talk (used for initiating prior to sharing info.) Narration and storytelling (critical for social
  - closeness) Procedural descriptions (rich in content)



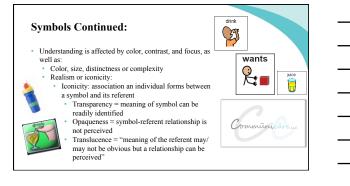


#### Vocabulary:

- Vocabulary varies depending on the context Vocabulary is effected by modality
- Vocabulary varies by communicative skills Pre-literate Individuals
  - Coverage vocabulary: messages that cover ba: needs
- Developmental vocabulary: encourage language and vocabulary growth Non-literate Individuals
   Functional rather than developmental vocabulary
- Literate individuals
- Letter-by-letter or word-by-word Emphasis on rate of retrieval (timing enhancement, message accelerations, fatigue reduction)



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# Symbols and Symbol Varieties:

- A variety of symbols exist:
  Real photos
  - Mayer Johnson Picture Communication Symbols (PCS)

  - Unity/Minspeak (PRC)
    Pixons (combination of PCS and PRC)
- Symbolisti (like in ProloquoZGo and Proc)
   Symbolisti (like in ProloquoZGo and News2You)
   Understanding can be affected by:
   Concreteness: clear depiction
   Familiarity: often seen
   Context: familiar activities
   Wholeness: complete people/objects
   Colost: bipter and mero contractiva

- Color: brighter and more contrastive Focus: relevant characteristic

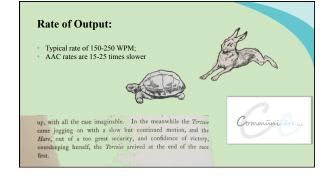


#### **Rate Enhancement:**

- Rate enhancement = coding and retrieval strategies designed to help increase rate of production using aided AAC systems • Word codes: alpha (letter) word codes – truncation
  - (HAMB) vs. contraction (COMUNCTN); alphanumeric, letter-category, numeric encoding, and
  - Morse code Message codes: alpha (letters), alphanumeric,

  - numeric, iconic and color encoding Letter, word and message predictions: single-letter, word-level and phrase/sentence-level prediction









# Core vs. Fringe Vocabulary:

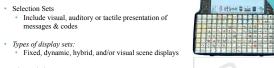
- Core Vocabulary
   Most commonly used words
   20-25% of words that we use 75-80% of the time
   Usually pronouns, verbs, and describing word

- Fringe Vocabulary
   Specific or unique to an individual, topic or context
   80% of words that we use only 20% of the time
  - · Predominantly nouns



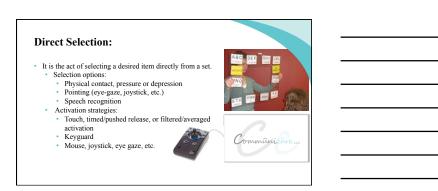
# **Access Methods:**

 Selection Sets
 Include visual, auditory or tactile presentation of messages & codes



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- · Physical characteristics:
- Number, size, spacing, arrangement, orientation of display, shape, color and contrast variation



### Scanning:

- Indirect access aided by either a communication partner or electronic technology in a predetermined configuration. Switches:
  - Mechanical switch
  - Touchscreen switch, Sip-'n-puff switch, proximity switches, etc.

  - Sip reput switch, proximity switches, etc. Activation strategies: Circular Linear Group-item (row-column or column-row) Timing techniques: Direct/inverse

  - Automatic Step scanning





### Feedback:

- · Tells the individual using AAC that an item has been
- selectedOffers information about the message being generated Types
  - Activation feedback: information sent back to the user upon activation of the input device
    - AuditoryVisual
  - Visual
     Message Feedback: provides information about the message after it has been formulated
     Auditory
     Visual



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### Message Output and Input:

- · Message output: what is sent to the communication
- Synthetic speech (text-to-speech, digitized speech)
  Print

- Gestures, pointing and sign Non-electronic/low-tech aided symbols
- Message input: information people using AAC receive from communication partners (usually) Natural speech
- GesturesVocalizations





# Visual Output and Input:

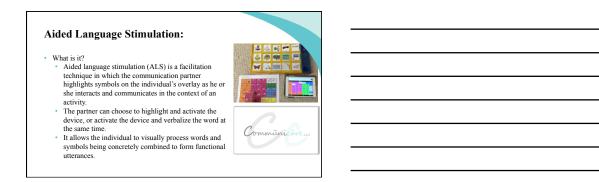
- Visual output: serves to clarify messages when the listener may not understand, or be able to hear.
  - Types:Hard copy (printed copy)

    - Computer screen messages
      Aided and unaided symbol displays
- Visual input: supports receptive language development and comprehension

  Aided and unaided symbols







# Aided Language Stimulation:

- Why is it used?
  It demonstrates to the individual using AAC how to
  - It demonstrates to the individual using AAC how to use their system for functional communication.
     It helps to develop and enhance their language.
     It provides examples of language in the same or similar mode that is expected of the individual using AAC.



# Aided Language Stimulation:

· How is it used?

- We primarily single words/symbols and short phrases.
  Use lots of repetition as you describe ongoing events.
  Model the single word/symbol needed to communicate

- a message of the same intent. Expand that message into a semantically equivalent two-word/symbol combination. Use the device in the same way the individual accesses
- the device.It can be used with low-tech and high-tech systems.



### AAC Systems: Low-Tech Boards

- Picture Exchange System (PECS)
- Communication books that require sequencing to compose message, with Velcro or pointing on a board





# AAC Systems: Tactile Symbols

- Graphic language system using concrete or abstract representations that are both permanent and manipulative.
- · Can be physically discriminated



# AAC Systems: Mid-Tech Display

- · Made with a paper overlay
- Digitized speech:
   Voice recording
- Set number of buttons
- Set number of overlays:Slide in different overlays





