









### Degrees of Intentionality

Not an "all-or-nothing" phenomenon

- 1. Absence of awareness of goal
- Awareness of goal 3.
- Simple plan to achieve the goal Coordinated plan to achieve the goal 4.
- Alternative plan to achieve the goal 5.
- Metapragmatic awareness of the plan 6.
  - to achieve the goal Wetherby and Prizant, 1989, pg. 79 as cited in Dr. Cosbey's SPCD 582 Lecture

### Seven Indicators of Intentionality

- Alternating eye gaze Persistent signaling until goal is accomplished or failure is indicated
- Waiting for a response from listener
- Changing the signal quality until the goal has been met
- Ritualizing or conventionalizing communicative forms
- Ceasing signal production when goal is met
- Displaying satisfaction when goal is met & dissatisfaction when it is not met

Wetherby & Prizant (1989), as cited by Reichle, Halle, & Drasgow (1998), From Dr. Cosbey's SPCD 582 Lecture



### Symbolic vs. Non-symbolic Communication

- Symbolic communication involves the use of symbols to communicate.
- Non-symbolic communication does not include the use of symbols.

### What is a symbol?

- "Something that stands for or represents something else" Vanderheiden & Yoder, as cited in Beukelman & Mirenda, 2005, p. 36
- Not context bound

# Symbolic Communication

- Oral Language speaking
- Written Language writing
- Symbolic gestures: one gesture means the same thing irrespective of the context (i.e., waving "hi")

### Non-Symbolic Communication

• Reaching / Pointing

- Hand-Leading
- Facial Expressions / Body Language
- Vocalizations
- Body Language
- Non-symbolic Gestures (Context bound)
   meaning changes depending on context (point dog, point cat, same gesture referencing different things)

# Types of Symbols • Conventional vs. Unconventional • ASL vs. idiosyncratic signs • Aided vs. Unaided • Aided: AAC device, writing, PECS • Unaided: speech, sign language





















### Using Objects to Communicate- is it a symbol?

You can use an object to communicate, but it doesn't necessarily make it a symbol

- Ex. 1 object  $\rightarrow$  cereal box
  - Presented with two choices of cereal, he points to the one he wants and you hand him the box
  - Presented with an empty cereal box and an empty egg carton. Chooses cereal box, you go and get the cereal from the pantry



### Reasoning?

- Want him to progress and begin to use symbols, hope he will move up the hierarchy (even if he doesn't it's still worthwhile)
- Things he wants may not always be visible, but if he has his own set object symbols, always accessible to him

### Determining the Individual's Symbolic Level

- Observe what they attend to in their environment
- Present them with things that contain photographs, pictures, objects and see how they respond
  - During snack ask them to hand you a spoon and see if they respond
  - Give them a magazine with photographs and see if they attend to the photograph
  - Hand them a story book and see if they look at the pictures.

### Determining the Individual's Symbolic Level

- Start at a level lower than you think they are (i.e., if you think they are at the picture level, start at the photograph level)
- Have them discriminate between symbols at the same level (e.g., have them discriminate between a photo of an apple and a pear).
- If they demonstrate competency at one level, move up one more to see if they understand the next level

### Communication/Language / Speech

### • Communication

• The process of exchanging information and ideas between participants • Language

• A creative, generative, rule-governed symbol system for communicating meaning through a shared code of arbitrary symbols

### • Speech

• The neuromuscular act of producing the sounds that can be used in language

### Language

- A creative, generative, rule-governed symbol system for communicating meaning through a shared code of arbitrary symbols
- Creative
- New words enter the language, old words drop out

### • Generative

 From a finite set of words and a finite set of rules, you can generate an infinite number of messages











### Unintentional Communication o 1-4 MONTHS • Cooing: • back of the throat sounds (k,g) • Rounded vowels (ku, goo)

### • Turn-taking interactions

- Rhythmic exchanges, mutual gaze • Repeated vocalizations/actions
- Building tempo/excitement
- Disengagement

# Unintentional Communication

### • 4-8 MONTHS

- Vocal play • Single syllable sounds (ba, da), Raspberries
- Reduplicated babbling (ba-ba, da-da)
- Baby & Adult interaction become more refined • More conventionalized actions and sequences (Ex. Peek-a-boo, Pat-a-cake)
  - Child anticipates specific actions
- (If change the order the baby will get mad or will just do it in the right order)

### Intentional Communication - Communicative Intents o Behavioral Regulation: • Get you to start or stop doing something • Request object, action, and to protest

- o Joint Attention:
- Wanting to show you or draw your attention to something Label/comment on an object (look at object then at you)

### • Social Interaction:

- Want to interact/play with you
   Greeting
- Request social routine (peek-a-boo)

## Intentional Communication 0 8-10 MONTHS • Non-symbolic Gestures • Pointing, giving, showing • Variegated Babbling • Different syllables in a row (babigabad) Echolalia o Imitate what you say

# Intentional Communication

### • 8-10 MONTHS

- o Jargon
  - Babbling that mirrors the stress patterns of adult speech
  - Sounds like their saying a sentence, but it doesn't mean anything- no "real" words
- Phonetically Consistent Forms (PCF)
  - Sounds that are consistent relative to a
  - specific context • "uh" to request food, "ah" to request being held

# Intentional Comm. with Language • 12 months • One word utterances (no, wawa, dodi)

- One word utterances (no, wawa, doal)
   18-24 months
   Have 50 words, mostly concrete nouns
   Start combining words
   \*Multiword utterances correlated with gestural combinations

  - combinations Agent + action (mommy go) Action + object (want cookie) Vocabulary Sput \*vocabulary production is correlated with functional gestures (will pretend to eat with a spoon and then say spoon")

## Intentional Comm. with Language

### • 2-21/2 YEARS

- Appearance of grammatical morphemes • -ing, in, on, plural -s, -ed, a, etc.
  - Mastery of morphemes occurs around 4 yrs
- Expand utterances to include morphemes • Jimmy eat → Jimmy eating

# Intentional Comm. w/ Language

### o 21/2 - 3 years

- Continue to expand utterances Develop a variety of sentence types
- Negative: The boy is not eating
- Imperative: the subject "you" is implied
- Push the Truck
- Interrogative: What's the man doing?

