

### Limitations of Activity-based Vocabulary

- 1) Does not reflect how children talk naturally
- 2) Limits reasons to communicate
- 3) Perpetuates being a responder not an initiator
- 4) Does not promote linguistic communication

No evidence of differences in developmental **sequence** or operating **principles** 

National Joint Committee for the Communication Needs of Persons with Severe Disabilities (NJC) and NIH Panel (Tager-Flusberg et al., 2009)

# How children learn new words? Social Cues Cognitive Cues Linguistic Cues

### **Attentional Cues**

 Children map word to meaning through association of the most frequently word used to the most salient referent (e.g. Xu)

### Cognitive Cues

 Cognitive assumptions that children make in early word acquisition help children narrow the possible meaning of a word (e.g., reference, extendibility, whole object bias, novel name-nameless categories) (e.g. A. Gopnik)

- In learning new words children tend to be guided by abstract conceptual knowledge.
- The child wants to make SENSE of the activities in which s/he takes part (Nelson, 1996): space, time, causality, objects and possession.
- Sense making takes place in a social world: Understanding the intentions and actions of others. (Tomasello 2003).

### Social/Pragmatic Cues

- Adults talk about objects, actions and events that children are focused on, thereby producing language that is relevant to the child's interests (L. Bloom).
- Children use social cues to interpret what the communication partner intends to mean (Tomasello).

### Linguistic Cues Children at different ages differ in their patterns of word learning (Bloom, 2003): Beginning communicators tend to learn words that refer to entities, properties and actions that are accessible to them through observation of the material world and attention to the intentional acts of those around them. Through hearing words in the context of sentences (I.e., comprehension), they learn that order and form matters and begin to draw meaning cues from syntax.

This is a FEP
These are FEPS
This is FEP
John FEPS
This thing is FEPPY
The dog is FEP the table

As children develop, some cues weight more heavily than others.

Linguistic Cues

Other

### From Lexicon to Grammar The first words children learn include exemplars from almost all the major parts of speech from adult language (Lahey & Bloom, 1977; Tomasello, 2003): general nominals: cup, shoe, dog specific nominals: names of family members... action words: jump, run, eat personal-social words: bye-bye, thank you modifiers: cold, wet pronouns: mine function words: and, of

EARLY Word Learning in AAC:
Putting it all together

It is not about vocabulary lists. It is about EXPERIENCE and PARTICIPATION with true communicative responsibility;

The process of early word learning changes in the course of development:
From expressing owns intentions to understanding others';
From highly referential to conversational and "storied" (K. Nelson);

## Word Learning in AAC: Use Attentional Cues • Perceptual Saliency and Temporal Contiguity • In the earlier stages use highly referential and contextualized intervention • heavy emphasis on observable objects, properties and events • use discourse-based tasks; words cannot be taught in isolation

## Use Social/Pragmatic Cues Make clear your communicative intent (e.g., augmented input or gestural prompt) (Binger & Kent-Walsh; Preissler & Carey, 2005) Use highly preferred topics and activities to encourage engagement

### Learning Target I can use pictures and words to tell about what happens in a book or in my class

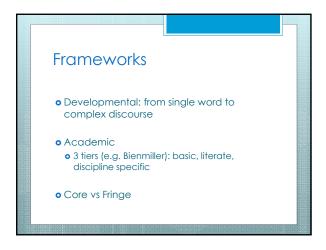
O Provide users with a range of lexical types and grammatical markers in order to realize different types of clauses and phrases (Koul, 2003).

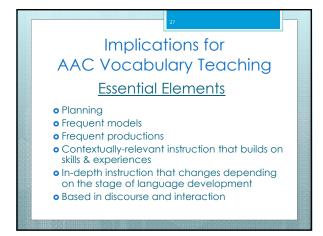
When grammatical markers are provided, word order matches environmental language (Nakamura et al., 1998) even with nonreaders (Kaul, 2003)

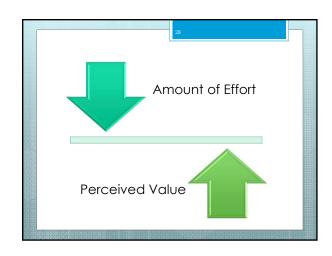
Sleep Disneyland on night
 Oh. That's a little unclear. But are you trying to say, you slept in Disneyland, not at home?

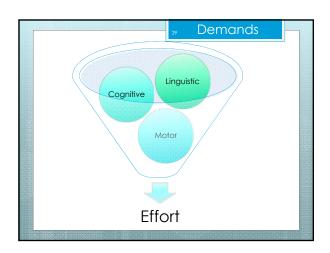
I slept in Disneyland at night

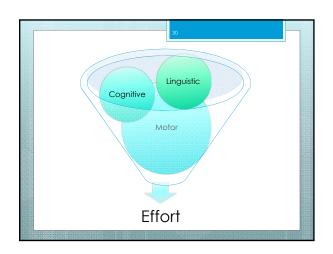
# Cognitive Cues Color grouping and shape (e.g. Krista Wilkinson) Visual Display Design (e.g. Janice Light) Motor planning and automaticity (e.g. Dukhovny & Gahl, 2014)

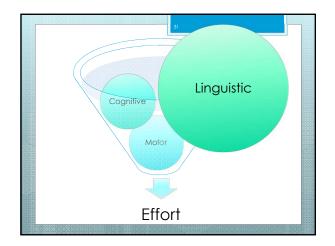


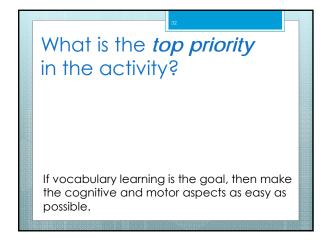


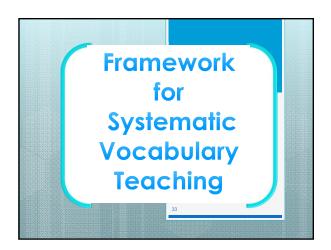


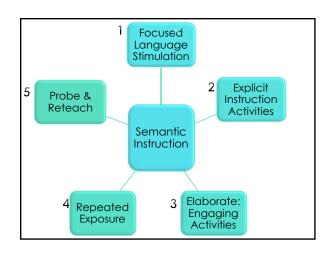


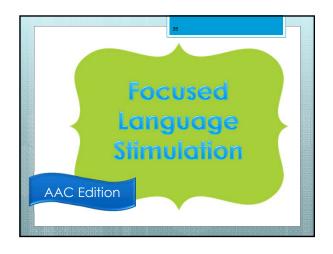






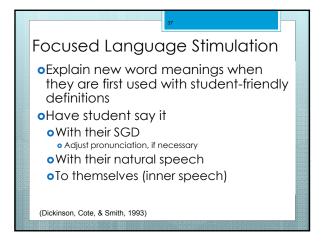


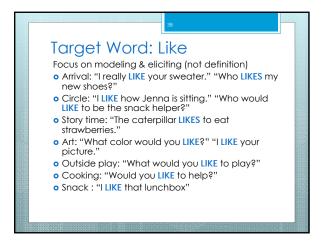




What is Focused Language
Stimulation?

•An intervention approach that:
•Uses naturally-occurring
opportunities
•Includes modeling target words in
ways that reveal their meanings
•Brief definition
•Clear connection to the context





Focused Language Stimulation
We might also:
•Segment it.
•Talk about the part of speech

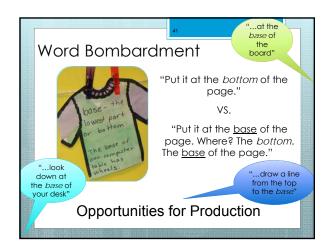
Focused Language Stimulation

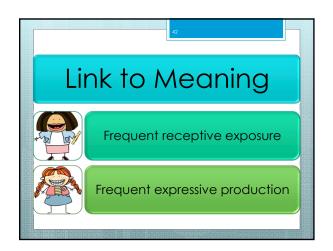
Give multiple examples to link the known and unknown words.

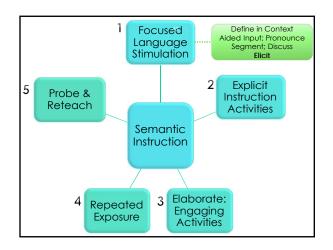
Dialogue-based (conversational) approach

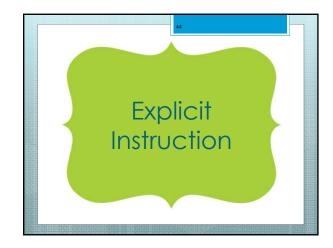
Provides a context & the opportunity for support

(Dickinson, Cote, & Smith, 1993)









What is Explicit Instruction?

Key Elements

• Teaching vocabulary in a way that is direct, meaningful, and effective

• Goal driven: Specific vocabulary targets

• High levels of planning

• Structured, systematic, scaffolded

• Creating opportunities (not just taking advantage of naturally occurring opportunities)

Direct Instructional Experiences:

1. Designed to make the meaning clear

• Working with definitions

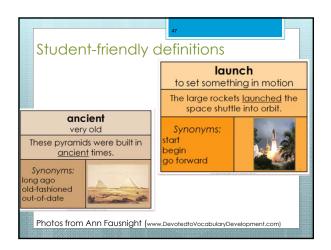
• Using contrastive examples

2. Promote metalinguistic knowledge

• Word consciousness

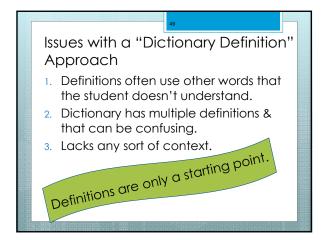
• Self assessment

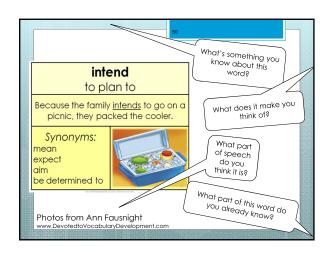
3. Refining and clarifying the meaning



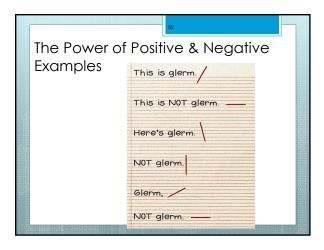
Rote memorization of a word and definition is the least effective instructional method resulting in little long-term effect.

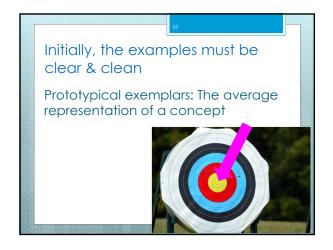
(Kameenui, Dixon, & Carnine 1987)



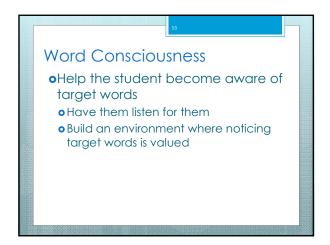


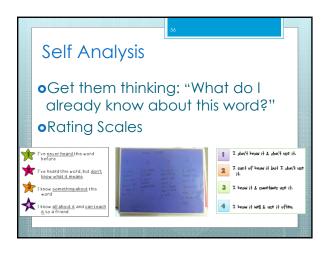


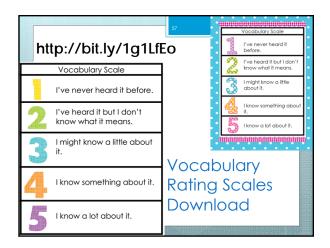


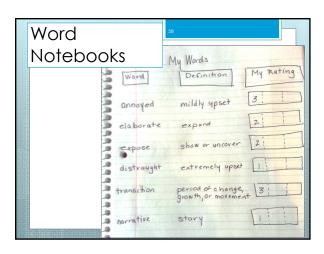




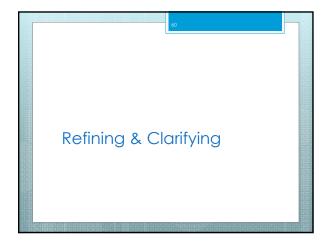




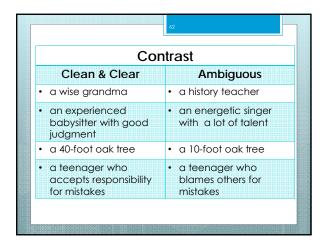


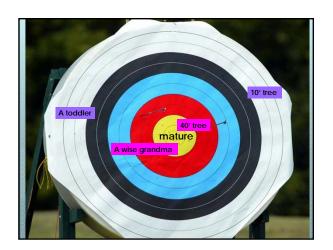


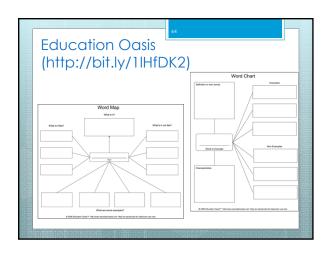






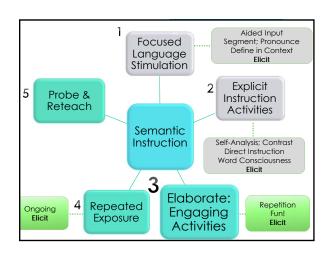




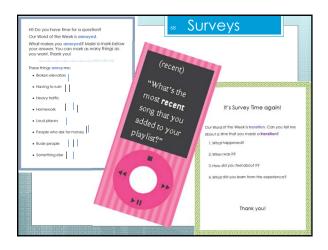


Other Things We Do to Make
Words Clear

•Tell stories that feature the key words
•Using activities to relate them to
known words
•Make associations
•Similarities & differences
•Connect with student's life
experiences
•"Where have you heard this word before?"







Surveys for Vocabulary Building

Ochoose the format

OHOW will they conduct the survey?

OPrepare the SGD and survey form

OPre-teach and practice

OEnlist a few respondents

Oconduct the survey

ODebrief

ORecord results

Language Experience Surveys

o "Where to you like to go?"

o "How do you go home?"

o"Tell me about a time you were shocked."

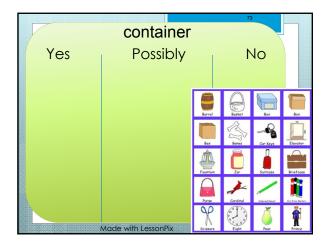
o"Did you ever do anything extravagant?"

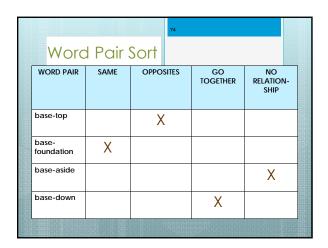
o"What do you own in abundance?"

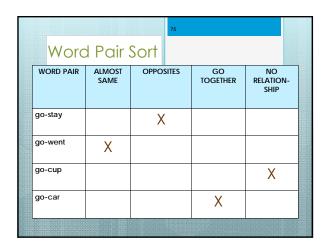
o"Tell me about something you did that took a lot of effort."

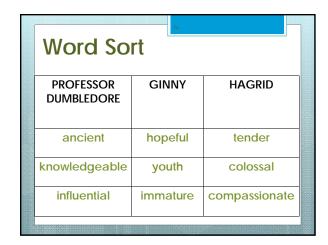
Vocabulary Sorts

• Activities designed to sort words into distinct categories
• Example, Non-example; More, Less
• Conversation-based
• Can vary the type and level of difficulty
• Single words
• Word Pairs

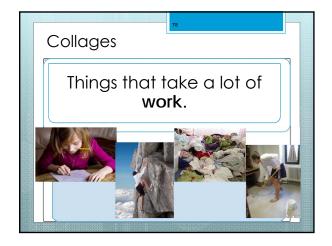




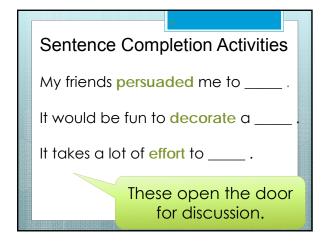


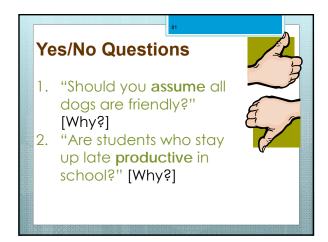


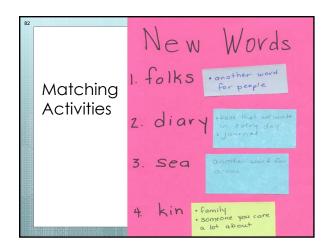












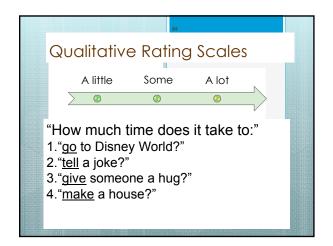
"How would you feel if..."

1. "Your dad was persuaded to buy a TV?"

2. "Your friend berated you."

3. "Your mom obtained a new car."

4. "Your teacher produced a very hard test."



Sentence Substitution

Provide word banks

• We were embarrassed to hear the doctor berate her patient.

reward, insult, remind, persuade

• The boy was commended for returning the wallet he found.

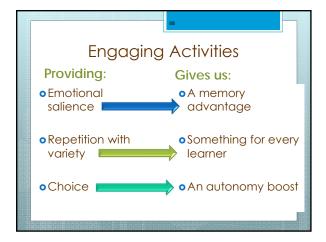
belittled, praised, informed, supported

Set an Expectation for Lexical Diversity

Introduce the concept
Rate sentences with key words

5=Fun & Interesting ---1=Boring
Make a list of over-used words
Brainstorm alternatives
Keep visual reminders
Add to them as needed
E.g., Tired Words; Vivid Verbs





Guessing Games

•Give a bank of vocabulary words.
•Present word associations.

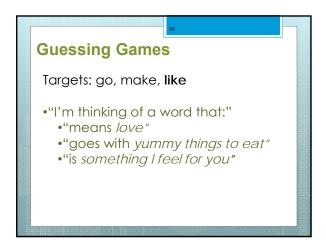
Targets: rotund, romp, colossal

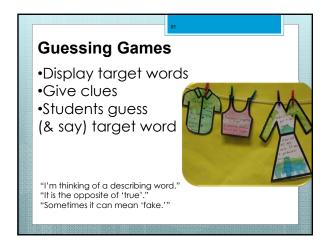
•"I'm thinking of a word that:"

•"means very large"

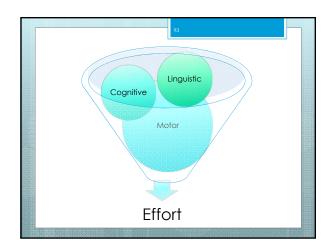
•"goes with walking"

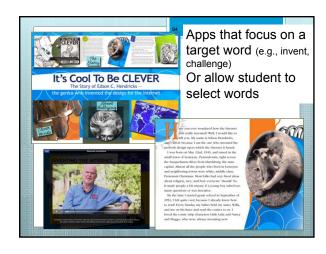
•"is related to circle"

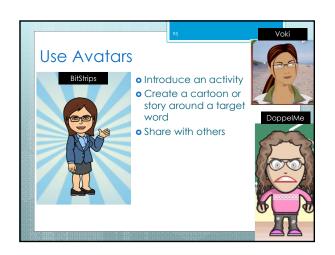


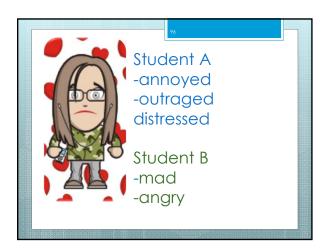
















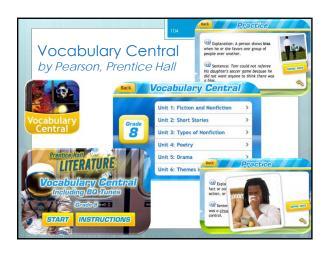






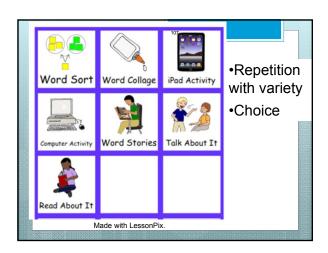


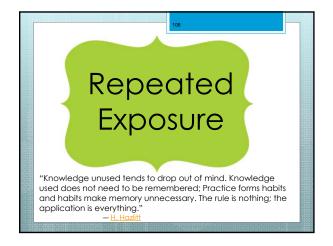




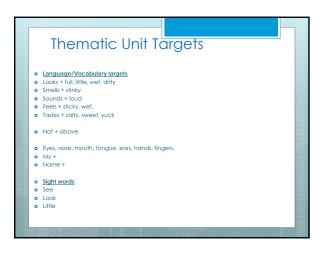








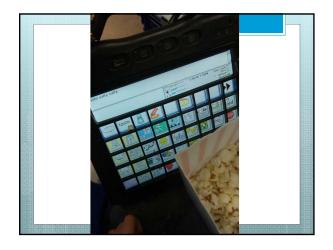
# Provide multiple opportunities for word retrieval • Word learning is strongly associated with word retrieval • Model and elicit the use of the target word across multiple contexts • Make the target word salient as you encounter it in a different context from the one you used to teach it • Repetition, repetition, repetition

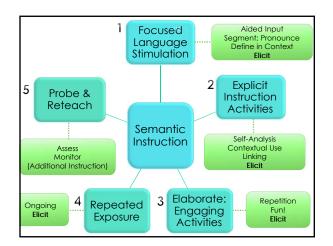


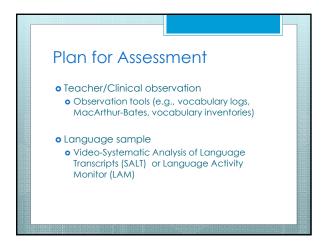


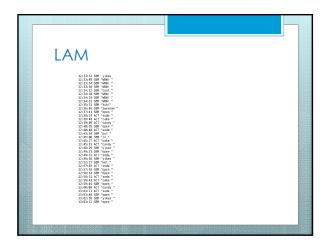


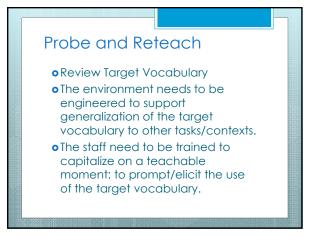


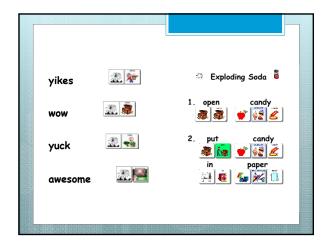


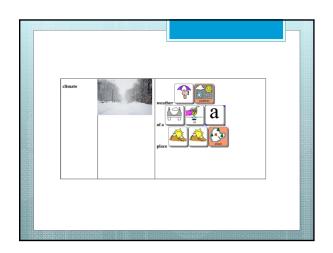


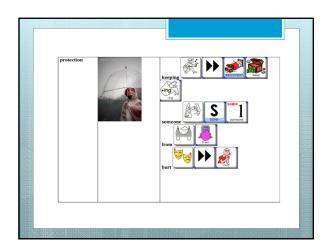


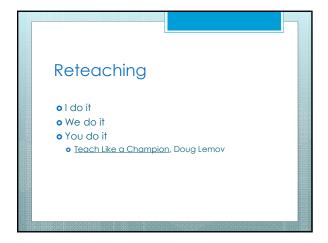












### It's *Not* About Word Lists, Quizzes, or Test Scores

Robust vocabulary learning takes them closer to literate language & academic success.

Not just learning brand new words (like abject & propensity) but also...

- Learning <u>more about words</u> that are somewhat familiar (*abundant, sage, divest, consider*)
- <u>Using more words</u> in their conversation and writing (e.g., *Laugh: Chuckle, giggle, guffaw)*

CHILDREN NEED
PARTICIPATION IN
MEANINGFUL EXPERIENCES
AND ACCESS TO LANGUAGE
TO LEARN THE MEANING OF
WORDS.

• "Word learning is the product of the active mind of a child. Children strive to learn the words that can express what they have in mind....A language will never be acquired without engagement in a world of persons, objects and events." L. Bloom 2000 p. 44

