A Clear Picture: The Use and Benefits of PECS

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PECS

- PECS is an approach that teaches early communication skills using pictures
- Students are taught to exchange pictures for something they want
- Critical in early teaching is NOT to pre-empt, but wait for students to hand over the picture first, so they **initiate** the communication

How widespread is PECS?

- Over 86 published articles (including 28 2008-2010)
 - Number 1 downloaded online JABA article in 2009: Charlop-Christy et al. 2002 PECS study
- 63 data based or case studies
- 6 Literature reviews
- Articles generated in 15 countries outside of the USA, including:
 - England, Wales, New Zealand, Brazil, Greece, Japan, Australia, France, Peru, Ghana, South Africa, Italy

The Pyramid Approach to Education The "how" of teaching The why" of behavior The science of learning Functional Activities

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The Base Elements

• Functional Activities

Skills and activities that lead to independence

• Powerful Reinforcers

Powerful motivation that drives learning

• Functional Communication

Skills that are useful now and in the future

• Contextually Inappropriate Behaviors

Focus on functionally equivalent alternative behaviors

The Top Elements

• Generalization

Skills generalized right from the start

• Effective Lessons

Sequential, Discrete, Incidental

• Specific Teaching Strategies

Goal is to eliminate prompts

• Minimizing and Correcting Errors

Opportunities to teach- not just fixing mistakes

• Data Collection

What is communication?

- Not all behaviors are communicative
- Must occur between two people
- "Speaker" directs behavior to listener"
- "Listener" mediates access to reinforcer



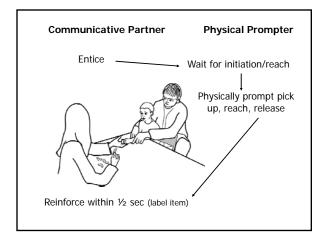
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Advantages of PECS

- Requires interaction with other people
- Individual initiates communication rather than responding to a prompt
- Starts with requesting, not labeling or commenting
- Is based on Skinner's analysis of verbal behavior

Phase I: How to Communicate

- - No discrimination



Goal: Approach people to initiate	-
To teach initiation, use 2-person prompting procedure	-
Teach 3-step sequence	-
 Pick up, reach, release 	
One picture at a time	-

Phase II: Distance and Persistence

- Communicative Partner moves away from student
- Picture- on communication book- moved further from student (still single pictures, no discrimination)
- Persistence taught
- Variety of people, activities, locations, reinforcers involved

IIIA: Simple Discrimination

- Motivation to use correct picture = getting desired item & avoiding undesired item
- Remember to reinforce at 1st indication of choice!
- 4 Step Error Correction Procedure for mistakes



versus



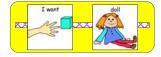
Phase IIIB Conditional Discrimination

- Discrimination between equally reinforcing
 - Conduct Correspondence Checks
 - Use 4-step Error Correction Procedure following mistakes



Phase IV: Building Sentences

- "I want" + reinforcer picture put on sentence strip
- Entire strip given to adult



Attributes

- Teach students to request very specific reinforcers
- Increase sentence length through attribute combinations
- Receptive mastery not a prerequisite!



Phase V Answering "What do you want?" • Answering "What do you want?" • Leads to Commenting • Maintain Spontaneity

Phase VI Commenting

- Answering "comment" questions
 - "What do you see/have/hear/feel?"
 - "Discriminating between commenting Sentence Starters and requesting Sentence Starter
- Spontaneous commenting and requesting



Modality Transitioning

PECS to Speech or PECS to SGD

Students tell us when they are ready!

Criteria:

- 1. Spoken vocabulary = PECS vocabulary
- 2. Rate of initiation is equal
- 3. Length of utterance is equal
- 4. Speech is 80% intelligible to unfamiliar listener
- 5. Speed of utterance is as fast or faster with new modality

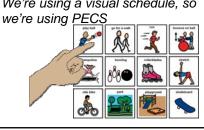
Do NOT take away skills!!

Research-based benefits of use of PECS

- Facilitates acquisition of speech
- Increases social approach during play
- Reduces Behavior Management Targets rates (even when not specifically addressed)
- Is easily understood in community and by peers

PECS Myths and Misconceptions

- If we're using pictures of any kind, we're using PECS.
- We're using a visual schedule, so





PECS Myths and Misconceptions

• PECS just teaches people to request.



- · PECS is only for people who don't speak at all.
- PECS is only for young children.



PECS Myths and Misconceptions

- If we use PECS, the person using the system won't learn to speak.
- PECS is only for people with autism



Comparison of PECS and PRT

Schreibman, Koegel, Stahmer & Koegel (in preparation)

- Comparison of two commonly-used early communication interventions
- PRT is vocally based; PECS is visually based
- 39 children with autism
 - Mean age = 29.21 months, SD = 5.67
 - ≤ 10 functional words
- Stratified randomization matched on:
 - Early word use, developmental Level, age
- 258 hours of treatment across 23 weeks (~6 months)
- 14 hours per week consisting of:
 - 4 hours parent training
 - 10 hours in-home intervention
- Follow-up assessments after 3 month

Pyramid Workshops

- PECS Basic Training (2-day)
- Advanced PECS Training
 - PECS Review, Practice and Problem Solving
 - Incorporating PECS Across the Day
 - PECS Implementer and Supervisor Certification
- The Pyramid Approach to Education
- Pyramid Topics including
 - Critical communication skills, Behavior Intervention, Asperger's syndrome, Language of Emotion, Parent training, Analyzing Language (using Skinner's Verbal Behavior), Organizing and managing classrooms, and more

Follow Up Options

- PECS Message Board
- Frequently Asked Questions (FAQs) in Manual and on website: www.pecs.com
- On-site consultation
- Consultation via phone or web
- Host your own workshop too!

www.pecs.com

Please visit

http://www.pecs.com/Research.htm

for PECS related research publications

