

It's All About Processing Language

Thinking, Listening, Speaking,
Reading and Writing

Penney A. Brooks, Ph.D.
Speech-Language Pathology Literacy Clinic

Dr. Penney A. Brooks

Contact Information:

Website: slplc.tripod.com

Email: penney.brooks@yahoo.com

Cell phone: (614) 370-2667

Knowledge

- What is It's All About Processing Language?

Systematic, developmentally sequenced,
integrated cognitive language literacy
approach

Knowledge

Combined

- Instructional principles of Bloom's Taxonomy
- Premise of the developmental neuropsychological Processing Continuum Model

Knowledge

- Systematically converts spoken language semantics & syntax into grammar in a developmentally sequenced order

Comprehension

- What does it do?
- Links skill development across language literacy continuum rather than isolating skill training into segments of thinking, language, listening, speaking, reading and writing.

Comprehension

Advantages of It's All About Processing Language

- Organizes cognitive language tasks from simple to complex for intervention planning.
- Applicable for assessment, goal/objective selection and progress monitoring.

Comprehension

Advantages of It's All About Processing Language continued

- Enhances analytical skills of comparing and contrasting.
- Trains students to pay attention to detail.
- Enhances problem solving skills.

Comprehension

Advantages of It's All About Processing Language continued

- Progresses from simple to complex thinking skills, sentence patterns, word meanings figures of speech.
- Makes repetitive multimodal input demands that facilitates fluency skill development at each level of the continuum.

Comprehension

Advantages of It's All About Processing Language continued

- Develops numerous associative linkages in long term memory by processing words multiple times along the language continuum.

Application

What is associated with It's All About Processing Language?

- Organizational tool: Outline
- National Reading Panel: Five Big Ideas
Essential literacy development components

Phonemic Awareness, Phonics, Vocabulary,
Comprehension and Fluency

Application

Incorporates Research Based Instructional strategies

- Identifies similarities & differences, attributes, categories, patterns and relationships
- Uses bottom–up & top down instructional strategies

Application

- Uses practice & homework for fluency development.
- Uses cooperative learning for group interactive participation.
- Uses goals & objectives for explicit skill training and for monitoring progress.
- Uses cueing and questioning for scaffolding & associative linking of new information to prior knowledge.

Analysis

What are the features of It's All About Processing Language?

Language Processing Hierarchy

- Nouns
- Function
- Associations
- Categories
- Similarities/ Differences
- Multiple Meanings of Words

Analysis

Bloom's Taxonomy

- Knowledge
- Comprehension
- Application
- Analysis
- Synthesis
- Evaluation

Analysis

Dr. Gail Richards wrote:

“Bloom’s Taxonomy works well as an adjunct resource when working on language processing.”

Integrated Thinking & Language Processing Skills

Knowledge

What is it? Noun (hammer)

Comprehension

What does it do?

Noun + Verb

(Hammer pounds)

Integrated Thinking & Language Processing skills

Application

What is it used for?

What is associated with it?

Noun + verb + direct object or prep. phrase

(A hammer is used to pound nails.) (A hammer pounds nails.) (A carpenter uses a hammer.)

Integrated Thinking & Language Processing Skills

Analysis

What is the noun's category?

Noun + is + noun (A hammer is a tool.)

What are the Similarities and Differences of relationships within or outside of a category?

(A hammer is a tool; a pair of pliers is a tool.) (A hammer is for pounding a nail; pliers are for tightening bolts.)

Integrated Thinking & language Processing Skills

Analysis continued

What are the Similarities and Differences of relationships within or outside of a category?
(A hammer is a tool; a pair of pliers is a tool.)
(A hammer is for pounding a nail; pliers are for tightening bolts.)

Integrated Thinking & Language Processing Skills

Synthesis

Creative Use or Innovation

When a hammer is not available pliers can be used to pound a nail, but a hammer cannot be used for tightening bolts.

What is another name for the noun (synonym)? What is its opposite (antonym)?

The noun, hammer, does not have a synonym or antonym.

The verb, hammer synonyms: strike, beat, pound & batter

Integrating Thinking & Language Processing Skills

Evaluation

Demonstrating an understanding of words used in multiple contexts.

(The hammer fell from the carpenter's bench.)

(The truck driver put the hammer down.)

Analysis

Components

- Bloom's Taxonomy: Questions
 - Think it
- Language Processing: Spoken responses
 - Hear it & Say it
- Language Conversion to Print: Written responses
 - See it & Do it or Read it & Write it

Analysis

Where is it used?

Regular & Special Education Classes

Kindergarten to eight grade

Speech Therapy

1:1 sessions

Small groups

Synthesis

It's All About Processing Language Lessons

Think Tank/LP Express

- Brain Storm for single words
- Combine words into sentences
- Compare and contrast sentences within categories and by attributes
- Sentence combining for compound and complex sentences
- Sentence selection for paragraphs

Synthesis

Scaffolding

- Visual cuing for independent verbal & written expression
- Verbal cuing for independent verbal & written expressions

Synthesis

Pictures

- Used for identifying labels, functions, associations, categories, attributes, action & compare/contrast activities.
- Used for pre & post assessments.
- Used for independent writing assignments.

Evaluation

Developmentally sequenced structure
facilitates:

Assessments

Goals & objectives

Progress Monitoring

Screening of linguistic & cognitive level of
functioning

Why?

Poor language learners may not intuitively

- Learn vocabulary
- Connect the dots between relationships within categories
- Discriminate multiple meanings of words based on contexts & word placement

Why?

As phonemic awareness is to reading decoding,
spoken language competency is to reading
comprehension.

The competence of a spoken language system is
predictive of a student's reading
comprehension.

Why?

- Eliminates guessing for the SLP or Interventionist for program planning
- Provides structure for explicit training along the thinking & language skills hierarchy.