



**AUDITORY PROCESSING  
&  
LANGUAGE**

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Kristin Barbour  
Discovery Program, Inc.  
NILD Canada Conference, 2007

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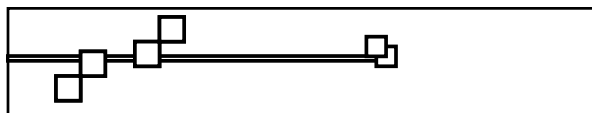
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**LEARNING OBJECTIVES**

- ✓ Review brain-based centers for auditory and language processing
- ✓ Examine a model of language processing
- ✓ Discuss auditory and language processing systems engaged during the Buzzer technique

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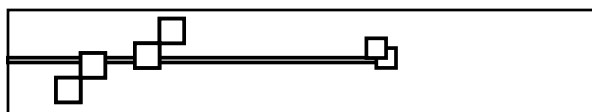
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**Jane Healy, *Endangered Minds***

- ✓ Language shapes thinking – and language shapes brains. The verbal bath in which a society soaks its children arranges their synapses and their intellects; it helps them learn to reason, reflect, and respond to the world.

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**BRAIN-BASED CENTERS**  
For  
**AUDITORY & LANGUAGE PROCESSES**

- ✓ Frontal Lobe
- ✓ Parietal Lobe
- ✓ Temporal Lobe
- ✓ Occipital Lobe

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**FRONTAL LOBE**

- ✓ **SENSORY –MOTOR PROCESSING**  
Controls movement of the body
- ✓ Organizes and formulates motor speech movement
- ✓ **COGNITION**  
✓ Executive functioning

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**Normal Articulation Development**

- By age 3 children can correctly produce:
  - m, n, ng, p, t, b, d, f, h, w, and vowels
- By age 6 children can correctly produce:
  - y, k, g, r, j, l, and initial blends
- By age 8 children should correctly produce all sounds

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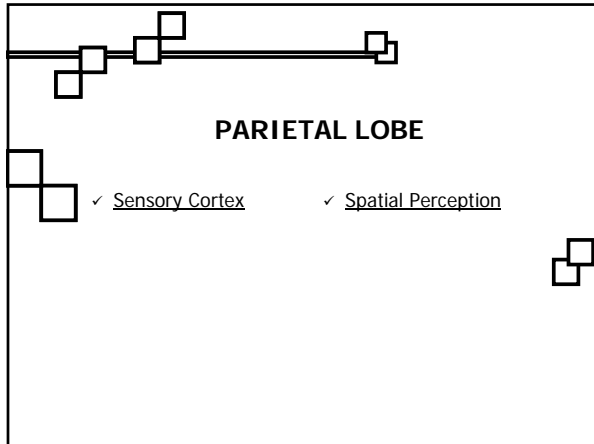
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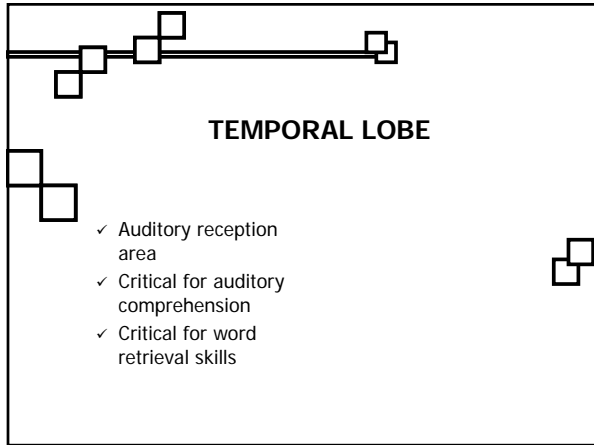
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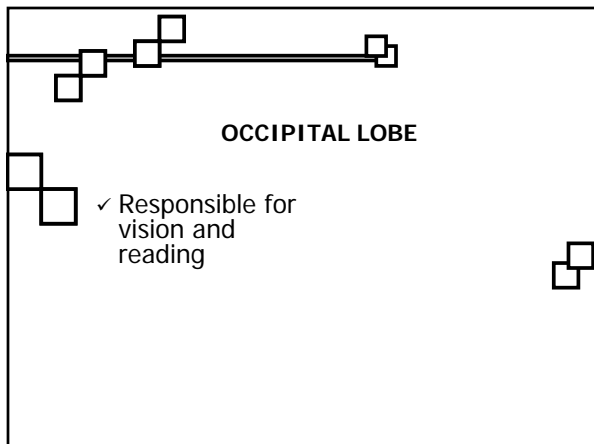
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## LANGUAGE PROCESSING

- ✓ Vygotsky
- ✓ Operational Definitions
- ✓ Terminology

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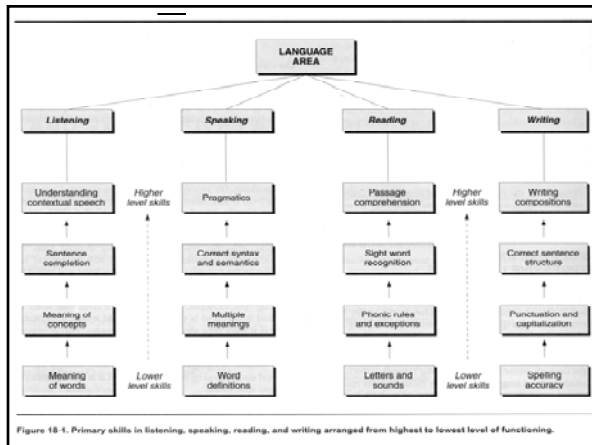
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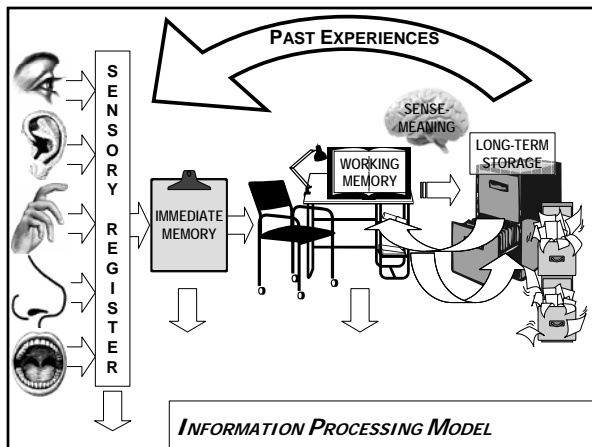
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**Language Processing  
within  
Buzzer Technique**

- ✓ Sensory
- ✓ Auditory
- ✓ Visual

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**Language Processing  
within  
Buzzer Technique**

- ✓ Immediate Memory
  - ✓ Operating consciously
- ✓ Experience determines importance
- ✓ Control attention

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**Language Processing  
within  
Buzzer Technique**

- ✓ Working Memory
  - ✓ Sequencing the letters and sounds
- ✓ Creating a sentence that makes sense and uses the word appropriately
- ✓ Meaning of this word relevant to the student

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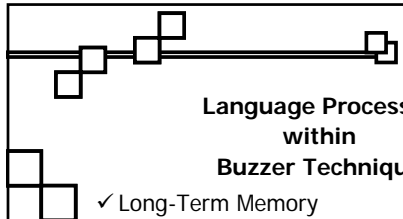
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**Language Processing  
within  
Buzzer Technique**

- ✓ Long-Term Memory
  - ✓ Recalling *Blue Book* keywords to analyze the Buzzer word
  - ✓ Recalling prior exposures to the word in order to define it




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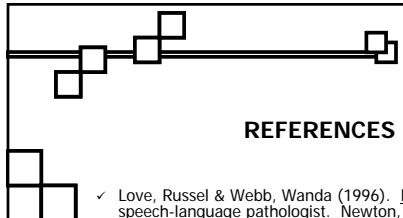
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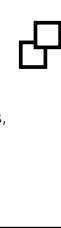
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