

CHDV 242

Information Processing Approach

I. Introduction

- **Overview**
- **Position on developmental issues**

A. Foundations/Assumptions

1. Humans as information processing systems
2. Development as self-modification
3. task analysis
4. mechanisms of development
5. Methodology
 - unit of analysis
 - rule assessment
 - microgenetic method
 - computer simulations

B. Examples of IP research

1. Elementary Processes - central to all cognitive tasks
 - Attention
 - Memory (capacity, strategy use).
2. Higher Order Processes
 - Meta-Cognition and meta memory
 - Problem-solving
3. Knowledge
 - Models for knowledge:
 - Expertise
4. Current research

II. Discussion

A. Evaluation of IP Approach

1. Strengths
2. Limitations

B. Application

How would you describe this approach to a teacher in the classroom? How could a teacher use IP ideas to improve practice?