Transition to Middle Childhood Age of Reason and Responsibility Irs a Small World Child under 7 must be accompanied by an adult

"The 5 to 7 shift"

- Increased responsibility for tasks
- Less supervision
- Direct instruction

Components of the transition

- Physical changes
- Neurological changes
- Cognitive changes
- Specific experiences

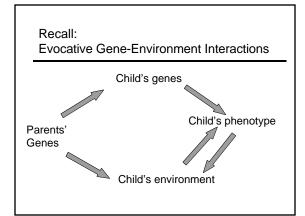
Physical Changes

- Rapid growth
- Weight gain
- Body strength
- Agility
- Fine motor control





And the lose their teeth!



Neurological Development

- Electrical activity
- EEG dominant type coherence



Stauder et al., 1993

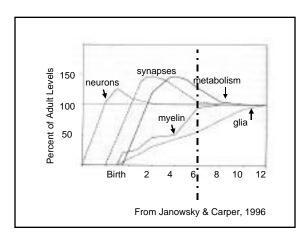
- Conservers and nonconservers
- Ages 5 to 7
- ERP
- no diff on "oddball" task
- diff on conservation task



Neurological Development

Myelination





Note:

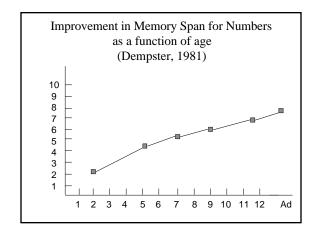
- EEG/ERP with kids is tricky
- Many possible interpretations e.g., myelination (threshhold or stabilization?
- And, as always...



Be wary of correlational data

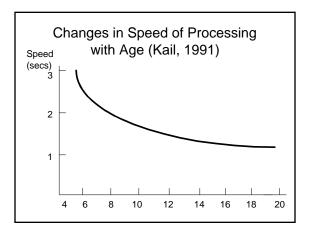
Cognitive Changes

- Memory Span
 - -Speed of processing
 - -Knowledge Base
 - -Memory Strategies
 - -Metamemory
- Inhibitory control



Why the change?

- Speed of processing
 - Cross-cultural research
 - Chinese vs English
 - Word length Study
 - Retrieval Studies

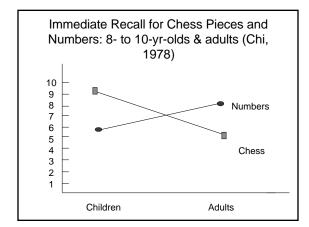


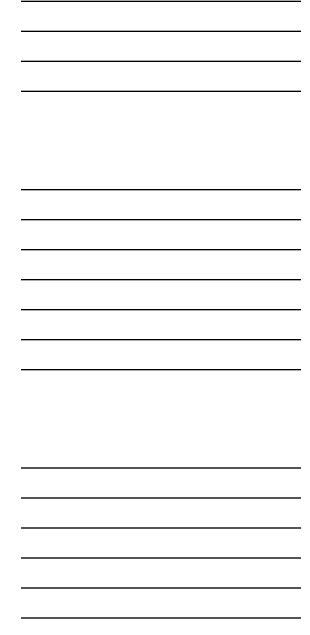
Also changes in:

- Familiarity with numbers
- Speed can say them

World Knowledge

- What is the most unmusical band in the world?
- A RUBBER BAND!!!!!!
- Why did the one-armed man cross the road?
- TO GET TO THE SECOND-HAND SHOP!!!!!





the more you know...Information organized betterFrees up capacity so can process more

- Allows for more "executive" processing
 - -Metacognition

information

- -Planning
- -Attention

Δ Ic \cap	changes	· in:
Δ	Changes) III.

- Knowledge about memory strategies
- · Selection of strategies

Strategies

- Rehearsal
- Organization
- Mnemonics
- Elaboration

Metamemory

- What is easy/hard to remember
- How well they can remember
- Which strategy to use in different situations

What brings about memory changes?

- Increase in speed of processing & capacity
- Increase in knowledge
- Acquisition of strategies for remembering
- Metamemory

Age or Experience?

• Unschooled children and adults rarely use strategies on "lab" tasks

Rogoff & Waddell, 1982	