COGNITION

Concepts

Metacognition—wow!

Organization:

Hierarchies

Prototypes

Problem solving

Barriers:

Fixations:

Functional fixedness

Mental set

Confirmation bias

Overconfidence

Approaches:

Trial and error

Insight

Algorithm

Heuristics

Representativeness heuristic

Based on prototypes

Availability heuristic

Based on vivid experience

Issues:

Framing (wording)

Belief bias

Belief perseverance

Illusory correlation

Memory reconstruction

Self-serving bias

Intuition

Factors:

Blindsight

Right-brain thinking

Moral thinking (Haidt's theory)

Automatic processing/implicit memory

Creativity

Thin slices

Subliminal stimulation

Microexpressions

Dual attitude system

Unconscious/conscious

Implicit/explicit

Gut-level/rational

About Language

Structure

Phonemes

Morphemes

Grammar

Semantics

Syntax

Appearance

Babbling (approx. 4 months)

One-word stage (1 year)

Two-word stage (telegraphic speech)

At 1 1/2 years

No 3 word stage

Theories of language development

Skinner—nurture

Behaviorist explanation

Follows usual learning pattern

(Reinforcement/punishment)

Chomsky—nature

Language acquisition device (innate)

Evidence:

* Overregularization of language (or overgeneralization)

Ex: "I goed to the store."

* Common elements

Surface structure (syntax)

Deep structure (semantics)

* Critical period

Age 7 for language acquisition

Cochlear implants

Best results 2-4 year olds

Language & Thinking

Whorf's linguistic determinism theory (or linguistic relativity theory)

- language shapes thinking

Evidence: bilingual advantage

Thinking in images (process simulation) Animal thinking

* Concept formation

* Theory of mind—similar to 2 yr. old

* Language: honeybees, ape language