Piaget’s theory of development (including 4 stages)

Schema

Adaptation

Assimilation

Accommodation

Conservation

Classification

Seriation

Transivity

Balance beam problem

Mandler’s critique of Piaget

Vygotsky’s theory of cognitive development (stages, scaffolding, learning or development first)

Neural development:

how many neural cells and synapses present at birth?

When do neural cells start to differentiate?

Synapse pruning

When does full cognitive development occur?

Rat brain study and experience

Gerontology

Senescence

Cognitive decline in old age

Episodic and procedural memory in old age

Maclin study of airline pilots

Broca’s area

Wernicke’s area

Linguist vs psychologist vs psycholinguist

Phonemes and Phonology

Morphemes and morphology

Syntax

Transformational grammar

Surface structure vs deep structure

Productivity and regularity

Chomsky and his theory of language

Linguistic relativity hypothesis

Neurology of language (pet scan differences in reading words, listening to words, semantic task and auditory task)

Saccades (fixation, regression and dyslexia)

Top down processing

Bottom up processing

Media viewing and language development in children under the age of 2