


1. Intellectual Development: Vygotsky: Learning and Development...




# Intellectual Development: Vygotsky: Learning and Development

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Spring 2007

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2. Vygotsky: Learning and Development; &, Spontaneous vs. S...



# Vygotsky: Learning and Development; &, Spontaneous vs. Scientific Knowledge

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Assignments: MIS, Ch. 6  
Readings Packet: Piaget's Commentary,  
Part II  
GKW: pp. 199-200

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3. Possible ID/Sig, Essay Items from Readings



## Possible ID/Sig, Essay Items from Readings

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- Learning vs. development
- Spontaneous vs. scientific knowledge
- Socialization in Piaget vs. Vygotsky
- Zone of 7 Proximal development

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4. Learning and Development in Vygotsky's Theory



## Learning and Development in Vygotsky's Theory (MIS, Ch. 6)

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- $D \gg L$
- $D = L$
- $D > < L$
- $D \ll L$

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5. Spontaneous Knowledge in Piaget and Vygotsky



## Spontaneous Knowledge in Piaget and Vygotsky

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- For Piaget, spontaneously acquired knowledge is the most important form of knowledge and the only way to achieve developmental change
- For Vygotsky, spontaneously acquired knowledge is important because it is historically related to and influences non spontaneously acquired knowledge, but it is not the major focus of development

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6. Non Spontaneous Knowledge in Piaget and Vygotsky



## Non Spontaneous Knowledge in Piaget and Vygotsky

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- For Piaget, knowledge that is acquired through, e.g., cultural transmission, is important only if it occurs within existing large scale structures (e.g., the stages). Otherwise it is "mere learning."
- For Vygotsky, development to higher levels of understanding requires instruction, intervention, and sustained effort by the more experienced members of the culture to help bring the newer members into the group.

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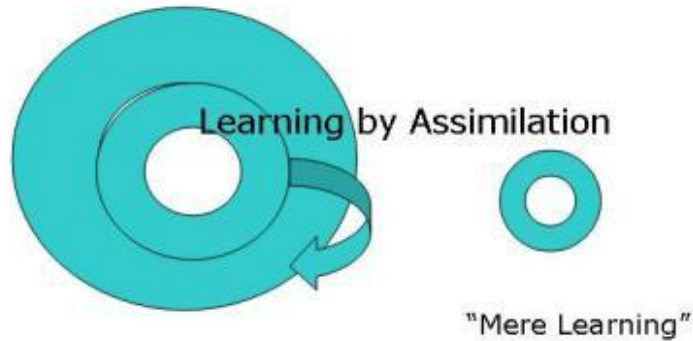
7.

Piaget

## Piaget

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Spontaneous (Developmental)



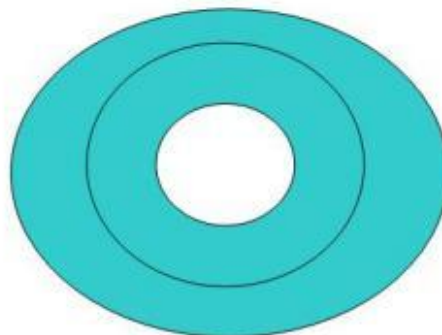
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8.

"Educational Psychology"

## "Educational Psychology"

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Development is the accumulation of learning

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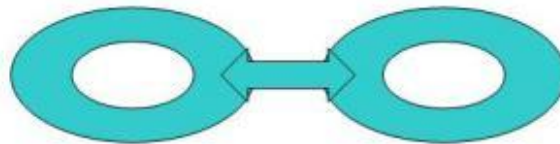
9.

## Koffka and the Gestalt School



### Koffka and the Gestalt School

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Development  
(Maturation)

Learning

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10.

## Koffka Version of Third Model



### Koffka Version of Third Model

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Development

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11. Non Spontaneous vs. Scientific Knowledge



## Non Spontaneous vs. Scientific Knowledge

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For Vygotsky, scientific knowledge includes all forms of culturally preserved and culturally valued knowledge, not just the natural sciences ala Piaget.

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12. Examples of “Scientific” Knowledge in Vygotsky’s Theory



## Examples of “Scientific” Knowledge in Vygotsky’s Theory

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- History
- Geography
- Economics
- Art
- Literature
- Music
- Political science
- Choreography
- Literacy
- And of course, physics, chemistry, biology

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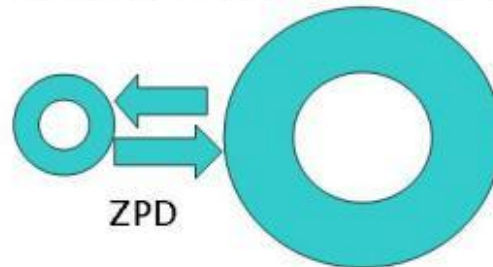
13.

Vygotsky

## Vygotsky

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**Spontaneous** (Learning, Development)



Scientific Knowledge  
(Learning, Development)

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14.

BEST for Vygotsky's Theory

## BEST for Vygotsky's Theory

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- B** Similar in many respects to other primates, with one major exception: a natural tendency to seek social contact and build social relationships\*
- E** Each member of the social/cultural group achieves full access to and full participation in its most powerful mediating systems and activities\*
- S** Maturational stages as backdrop to development. Stages within each mediating system (e.g., school subjects) but not traditional meaning of structures as a whole.

\* *Note: these criteria are extrapolated from Vygotsky's work; not in text.*

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15.

## BEST for Vygotsky's Theory



### BEST for Vygotsky's Theory

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#### **I** Four major kinds:

1. Zones of proximal development
2. Internalization and appropriation of mediating systems
3. Transformations based on interactions between and among mediating systems ("alloys" that lead to higher learning)
4. Differentiations within mediating systems that help form new mediating systems (e.g., Inner speech, reading, writing, water polo, 3D chess)

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16.

## Criticisms of Vygotsky's Theory



### Criticisms of Vygotsky's Theory

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- Overly optimistic
- No consideration Of gender
- Informal research methods
- Overemphasizes language, literature
- Impractical: Requires One On One Education
- Underemphasizes individuals

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