



4th International ISCAR Summer University
Moving with and beyond Vygotsky

Moscow, July 1-7, 2013



The problem of a model constructing in thinking process

Lyudmila A. Firsova

Supervisor prof. D.B. Bogoyavlenskaya

Moscow State University of Psychology and Education, Russia

□ Alexey Leont'ev: the ideas on thought was developed by influence of the formal logic and on the base of the subjective-empirical assosianizm psychology.

□ Vasily Davydov: the idea of thinking influenced the features of the solution of psychological and didactic learning objectives. That representation was always used in determining the content of school studying and the formation of the learning process according to this content.

Mental modeling as a measure of formation of thought

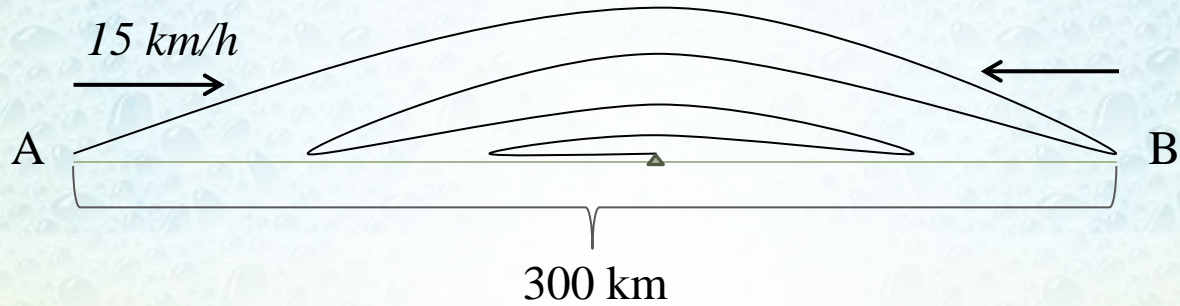
- **Object** - solving problem process
- **Subject** - constructing a model in one's mind
- **Method** - solving problem
- **Our suppositions:**
 - 1) studying model determines the line of search (hypothesis)
 - 2) the solution comes when the original "model", overcomes (removed) when implementing of consistent, conscious actions to implement it.

Methodological bases

- *thinking* - by S. Rubinstein

- *learning activity* - by V. Davydov

Schematic drawing



What did they say?

- ❖ What a strange fly! Flying back and forth. And how was it flying?
- ❖ If it was flying an arc – than one distance, if a straight line - than another...
- ❖ Didn't it stay long with one's there?
- ❖ Poor cyclists! What along way they went!
- ❖ Reactive fly! It drank water from the Moscow-river!
- ❖ Is it exactly flew up to one and back to the first one?
- ❖ **Am I doing right?**

Problem solving

- Acceptance
- Constructing mental model
- Negotiation / overcoming



4th International ISCAR Summer University
Moving with and beyond Vygotsky

Moscow, July 1-7, 2013



MSUPE

The problem of a model constructing in thinking process

Lyudmila A. Firsova

Supervisor prof. D.B. Bogoyavlenskaya

Moscow State University of Psychology and Education