

Example of a morphological matrix - developed in the course on 24.09.2012

Design of a learning experiment

parameter	expression of the parameter →			
didactic purpose	orientation (perceptions in the foreground)	work with new content (knowledge discovery in the foreground)	consolidation (application in the foreground)	evaluation (assessment of personality dispositions in the experimental action)
kinds of problems	problem of knowledge (natural scientific experiment)	design problem (technical experiment)	evaluation problem (technical experiment)	
investigated correlations	causal correlations (cause – effect))	conditional correlations (reason - result, condition - conditional)	final correlation (purpose - medium structure - function)	
function in knowledge discovery	exploration	confirmation	falsification	
activity	teacher experiment	learner experiment		
social interaction	teacher fronted experiment	individual work	partner work	group work
abstraction	real experiment	simulation/model	thought experiment	
self-dependence	reproductive experimentation	productive experimentation	problem-solving experimentation	creative experimentation
instruction	open	fixed		