



















	Worldviews	
Metaphor:	Mechanism	Ecology/livin
Epistemology:	Objectivist	g systems Participative
Ontology:	Reductionist, dualistic	Holistic, integrative
Methodology:	Reductive	Systemic

Types of indicators			
Paradigm:	Mechanistic	Ecological	
Specificity:	Detailed	General	
Style:	Technical	Resonant	
Role:	Prescriptive	Indicative	
Focus:	Performarice	Process	
Context:	Generic	Located	

Assumptions and values			
Mechanistic paradigm	Ecological paradigm		
Results orientation	Quality orientation		
Control/management	Participation/ownership		
Instructive pedagogy	Constructive pedagogy		
Skills orientation	Values/consciousness orientation		
Standardisation	Diversity		
Achievement	Emergence/becoming		
Urgency/'must do'	Engagement/'let's do'		

Pros and cons		
	Mechanistic indicators	Ecological indicators
Advantages	 Generalisable Precise Measurable Comparable Recordable 	 Meaningful Ownership and engagement Self-determination Motivating Encourage emergence
Disadvantages	Technocratic 'Sins of omission' Emergence, creativity squeezed	 Not easily transferable or compared Imprecise and difficult to measure
	Too closed	Direction (?) Too open (?)



	Learning levels		
First order change	Effectiveness/ efficiency	'Doing things better'	
<i>Second order</i> change	Examining assumptions	'Doing better things'	
<i>Third order</i> change	Paradigm change	'Seeing things differently'	

Learning levels			
First order	Cognition	Conformative learning	
Second order	Meta-cognition	Reformative learning	
Third order	Epistemic learning	Transformative learning	











