

EKHOUT

Group work: design learning activity using frameworks for thinking: 5 groups

	EEKHOUT	Group 1
	cs dealing with ONAL DESIGN	h
Create a structured learn	ing environment with emphasis	on content or

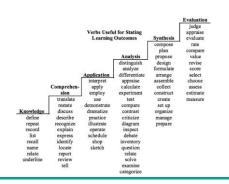
## Highlighted model dealing with Instructional Design

- Bloom's taxonomy of educational objectives (cognitive domain) (1956)
- Anderson and Krathwohl's revision of Bloom's taxonomy (2001)











# Highlighted models dealing with Productive Thinking

- De Bono's lateral and parallel thinking tools
- Lipman's model of thinking



Group 2

Six thinking hats

What are my powers when wearing each hat?

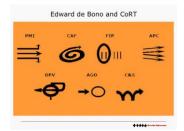
Asking questions:

- What do we know?
- What do we know?
- How do we get this information?

Judging:
- What are the difficulties
& weaknesses?

Being optimistie:
- What are the strengths
& opportunity:
- Thinking about thinking:
- What are the strengths
- What we have the difficulties
- What are the strengths
- What we have the strengths
- What we h







## Matthew Lipman



• Lipman, a Philosophy professor at the time, developed P4C in the 1970s. He was concerned with the Deweyan notion of creating an education for a healthy democracy -an education that would develop a critical citizenry with respect and empathy for others in the community.



### Main purpose

- To make learning meaningful
- To encourage active enquiry
- To promote democracy
- To encourage good judgement



### The 4 Cs of P4C

Thinking mode	Thinking focus	Thinking Habit
CRITICAL	ABOUT THINKING	Reflective(ness)
CREATIVE	FOR YOURSELF	Thoughtful(ness)
CARING	OF OTHERS	Considerate(ness)
COLLABORATIVE	WITH OTHERS	Reasonable(ness)







Socratic Questioning - the MTV steps to understanding and good judgement

1. Questions of Meaning:

Could you explain more clearly (or give an example)? How does X relate to Y? (or, How is X different from Y)?

2. Questions of Truth (and Validity)

Is that true? (or, What makes you think - or assume - that?) Does that follow? (or, What follows from that?)

3. Questions of Value

What is interesting, or important, in this?





Frameworks dealing with COGNITIVE STRUCTURE & **DEVELOPMENT** 

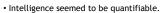
Models dea	ling with	
COGNITIVE	STRUCTURE &	DEVEL OPMENT

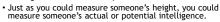
- Gardner's theory of multiple intelligences
- Pintrich's general framework for self-regulated learning

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8.7
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#### Gardner, '06 MI: New Horizons

Group 4





- There was one dimension of mental ability along which we could array everyone.
- Gardner presents a radically different view of the mind, recognising different and discrete facets of cognition, acknowledging that people have different cognitive strengths and contrasting cognitive styles (pps.3-5)



#### Howard Gardner's Theory of Multiple Intelligences

• The idea that intelligence is fixed, that the brain changes its architecture only in early life, and that all brain damage is permanent, belongs to the past. Evidence abounds that throughout life, the human brain restructures itself according to what it learns .... The concept of plasticity offers hope to educators, who impart the importance of lifelong learning to students. (Educational Leadership Nov. 2001)



Howard Gard	ner's Theory of Multi	ple Intelligences			
INTELLIGENCE CORE C	DPFRATIONS				
	syntax, phonology, semantics				
Musical	pitch, rhythm and timbre				
Spatial	number, categorisation, relations accurate mental visualisation				
Interpersonal	control of one's own body awareness of others' feelings, etc.				
	awareness of one's own feelings recognition and classification of objec	ts in			
the environment			gin .		
			ЕКНОИТ		
Pintrich: se	elf regulated lear	ning Group 5			
Definition:					
An active, const	tructive process whereby l	earners set goals for			
	nd the attempt to monitor gnition, motivation an beh				
constrained by	their goals and the context	tual features in the			
environment.					
			eta		
			екноит		
Pintrich are	eas for self regul	ated learning			
Phase	Cognition	Behaviour	ı		
Forethought, planning and					
activation	Metacognitive knowledge activation	behaviour			
Monitoring	Metacognitive awareness and monitoring of cognition	Awareness and monitoring of effort, time use, need for help			
Control	Selection and adaptation of	Self-observation of behaviour Increase/decrease effort			
	cognitive strategies for learning, thinking	Persist, give up Help-seeking behaviour			
Reaction and reflection	Cognitive judgments Attributions	Choice behaviour			
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Presenting - questions		
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