

The ICAP Framework

Category	INTERACTIVE	CONSTRUCTIVE	ACTIVE	PASSIVE
Characteristic	Dialoguing	Generating	Manipulating	Receiving
Definition	Generating additional inferences and information via dialoguing with a peer	Generating new inferences or information beyond what is presented	Manipulating learning materials to focus attention	Merely paying attention to receive the learning material
Knowledge-change processes	Co-Inferring (taking turns, mutual benefit)	Inferring, connecting, comparing, reflecting		Storing isolated, encapsulated info
Expected cognitive outcomes	Co-Creating, inventing new products	Transferring to new contexts, interpret	Applying in similar contexts	Recalling verbatim in the identical context
Learning outcome	Deepest understanding	Deep understanding	Shallow understanding	Minimal understanding
Examples of learning activities	<ul style="list-style-type: none"> • Defend a position in a group • Ask and answer in pairs • Debate justification with a peer 	<ul style="list-style-type: none"> • Reflect out loud • Summarize in new words • Compare to another video 	<ul style="list-style-type: none"> • Take verbatim notes • Highlight key information • Pause or replay 	<ul style="list-style-type: none"> • Listen to a lecture • Read an article • Watch a video
Hypothesis	I >	C >	A >	P

Source: Chi, M. T., & Wylie, R. (2014). The ICAP framework: Linking cognitive engagement to active learning outcomes. *Educational Psychologist*, 49(4), 219-243.