Table 1: Interactive-Constructive-Active-Passive (ICAP) taxonomy for various overt learning activities

ICAP classification	Description	Examples
Interactive	Dialogue in which learners produce a joint output containing unique contributions from each participant	• Have two-way discussions with others • Build on contributions of others • Critique alternative views when constucting own view
Constructive	Learner produces an output that contains information beyond what was already provided to them	• Taking lecture notes in own words • Self-explanation • Written explanation • One-sided verbal explanation
Active	Learner is doing something physically	• Asking a clarification question • Taking lecture notes verbatim • Highlighting or underlining text gesturing or pointing • Manipulating an object
Passive	No explicit physical activity on the part of the learner	• Observing lecture • Reading text

Note: Classifications based exclusively on what a learner appears to be doing. Overt action does not perfectly map with underlying cognition but can be a practical approximation for teachers