

## ***critical components of effective practice***

- prior knowledge shapes learning
- learning is a process of actively constructing knowledge
- experts organize knowledge and approach problems differently than students
- metacognition can help students learn
- students who can transfer their knowledge to new situations learn more readily
- interactions with others can promote learning

Mintzes, J. J. (2019). From Constructivism to Active Learning in College Science. In J. J. Mintzes & E. M. Walter (Eds.), *Active Learning in College Science: The Case for Evidence-Based Practice* (x-x). Place: Springer.

# *formative assessment strategies*

- clarify learning and performance expectations
- elicit evidence of student understanding
- provide feedback to learners
- facilitate peer learning
- promote student ownership of learning

Black, P., William, D. Developing a theory of formative assessment.  
*Educ. Asse. Eval. Acc.* **2009**, 21, 5–31.