

Beyond Recall: Using Higher-Order Questions and In-class Quizzes to Elevate Learning and Assessment

Dr. Elaine Foster Assistant Professor Human Performance & Sport Studies Idaho State University elainefoster@isu.edu

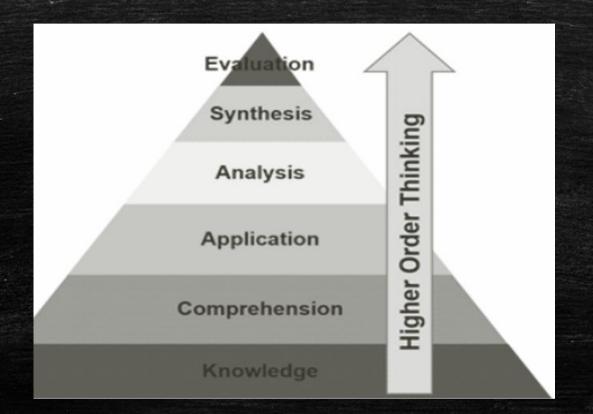


In this presentation I will discuss:

- Higher Order Thinking
- Questions that Elicit Higher Order Thinking
- An Integrative Quiz to Reach Higher Order Thinking
- Examples of Quiz Questions

Higher-Order Thinking

Bloom's Taxonomy (Bloom, 1956)



Higher-Order Thinking

Moral Development Theory (Stoll & Beller, 2004)

Embodied Experience

- The whole human experience creates knowledge (Merleau-Ponty, 1955)

A Social Process

- Learning and knowing is a dance, a group dance (Gill, 1993)

Integrative Cognitive process

- All cognitive materials, print, screen, video, and ideas must be utilized

Cognitive Disequilibrium (Kohlberg, 1981)

Questions to Elicit Higher Order Thinking

Costa's Levels of Questions

teachthought WE GROW TEACHERS

Level 3: Applying

Level 2: Processing

Level 1: Gathering

Questions to Elicit Higher Order Thinking

- Initial recall
- What do you currently know?

- Create connection
- Why do you think this is?

- Critique beliefs
- How do you know?

Moral Development Theory (Reimer et al., 1983)

Integrative, In-Lesson Quizzes

The Strategy

- Five questions throughout the lesson
- Questions from each order
- Handwritten (usually)
- Unpredictable when the questions will be asked

The Justification

- Students must write!
- Allows time to think; facilitates discussion
- Quiet students still are "heard"
- Improves teacher-student interaction
- Assess knowledge base

Example: Recall, vocab, etc., that are critical for the lesson

"_____ is the discipline that aims to distinguish good reasoning from bad" (Knachel, 2020, para 2).

Many factors contribute additional risk within Physical Education such as _____?

True or false: According to Fleming (2021), many of the disparities experienced by people of color in recreational spaces today result from historically racist practices and policies from the past.

AS YOU CAN SEE, I'VE MEMORIZED THIS UTTERLY USELESS FACT LONG ENOUGH to Pass a test Question. I now intend to forget it forever. You've taught ME NOTHING EXCEPT HOW TO CYNICALLY MANIPULATE THE SYSTEM. CONGRATULATIONS.



Example: Set the stage for thinking beyond their own experiences

What is a group that you fit into (e.g., gender, race, ability level, economic status, sport level or type, religion, where you are from, hair color, height, hobbies, etc.). How would it feel if a mascot were made that depicted that this group in a negative way, with an inaccurate term or a cartoonized image?

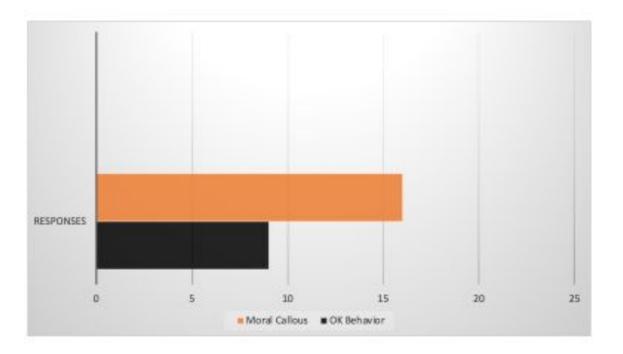
Example: Apply our discussion to their assignments

Is your philosophy logical? (paper 1)

- What are the propositions? (the things we claim, state, assert)
 - Can you support those with evidence?
- Does your *how* lead you to achieve your purpose?
- Do your values guide you how?

Example: Gather Information on What to Discuss or Review

A coach who works officials at a basketball game (such as by yelling at an official with extra vigor to improve his team's chances of getting the next call).



Overall, this strategy:

- Facilitates higher order thinking
- Engages students in the lesson
- Provides evidence of learning
- Improves student-teacher interaction

References

- Kohlberg, L. (1981). The philosophy of moral development: Moral stages and the idea of justice. Harper & Row, New York.
- Reimer, J., Paolitto, D.P., & Hersh, R.H. (1983). Promoting moral growth from Piaget to Kohlberg. (2nd ed). Prospect Heights, IL: Waveland Press.
- Stoll, S. K., & Beller, J. M. (2004). SBH ethical standard.