The Science of Learning

Learning Theory: Interleaving

Definition: Switching between ideas or concepts while studying to avoid mass practice. For example: studying a mixture of flashcards on anatomy, normal and pathological physiology, and pharmacology in a random order, rather than studying all anatomy flashcards, then all pharmacology flashcards, then all physiology flashcards.

Effect: Interleaving produces better scores on final tests of learning.

Why it works:

Research: <u>Rohrer, D. (2012). Interleaving helps students distinguish among similar concepts. Educational</u> <u>Psychology</u>

Key Points from the article:

- Interleaving makes it easier for learners to identify distinguishing features of one category compared to another.
- Interleaving inherently incorporates spacing rather than massed practice, which is known to improve learning.
- It is easy and inexpensive to implement interleaving in curriculum or in studying.

Curricular Design Application at the Larner: The Vermont Integrated Curriculum contains horizontal threads so that students avoid massed practice of a topic. We structure pedagogy in a way that encourages interleaving and spaced review and discourages massed practice:

1. Integrated Curriculum

- 2. Peer Teaching
- 3. Integrated Review as a modality

Other Resources: Interleaving Osmosis Video