Why Use Different Teaching Techniques?

Neuroscience research shows there is a physical change in the brain when learning occurs. Brain cells establish connections. Connections get stronger. Recall gets faster. Form lasting connections & memories.

Initial Learning → Practice/use of new information/skills → Practice/use over extended periods → Brain cells establish connections. Connections get stronger. Recall gets faster. Form lasting connections & memories.

“Cramming” is not considered learning.

Frequent Quizzing Can Improve Learning

Practice at retrieving facilitates later recall.

In some cases, short-term memory is higher when more time is spent processing material.

Long-term memory is higher when practice at recalling information is used, i.e. frequent quizzes.

Q: Frequent quizzing has a proven benefit, but how do you find the time to do it?
A: We turn to online tools to help.

My Top Reasons to Create Video Quizzes

- Replicates my presence when the students learn my lessons
- Creates a meaningful understanding of a new material
- Organizes the content into short, teachable chunks
- Motivates students for self-study & self-assessment
- Initiates learning & self-discovering outside of classroom
- Creates many different marks for students before tests
- Student and I receive quick feedback on how they are doing
- Research supports this method of teaching and learning

Results of using Video Quizzing

As part of the Teaching with Technology Partnership, Students in MGT 2250 were surveyed on their use & opinions of video quizzing. The majority of students surveyed seemed to agree that they were a positive additional.

Students agreed the video quizzing helped them:

- Complete Homework: 72.06%
- Understand Concepts: 72.06%
- Improve Excel Skills: 63.23%
- Study for Tests: 51.77%
- Reinforce In-class Lessons: 83.82%

In an open ended question, students reported the best parts of video quizzes were:
- the step-by-step walkthroughs,
- that they reviewed items covered in class,
- and that you could rewind it and/or watch it multiple times.

Observed Benefits

- Active engagement in course material.
- More class time devoted to applying course material.
- Decreased the need for tutoring sessions.
- Students use quiz videos as a primary studying resource.
- Demand for more videos.

Before implementing these quizzes nearly 20% of students attended office hours and/or TA’s tutoring sessions before the final exam; the majority of their questions pertained to Excel. After implementing this new technique, zero students came to the tutoring sessions before the final.