## The Power of Tests to Teach

Conventional wisdom is that new information is acquired while studying and then the extent to which the material has been successfully learned is assessed through testing. Typically, most individuals consider examinations neutral with respect to the actual learning process. Researchers are now reporting that tests themselves may be an important part of long-term retention of new information (Karpicke & Roediger, 2007).

In **CONDITION 1**, students read blocks of information related to the test four times, waited five minutes, and then took a quiz.













In **CONDITION 2**, students read blocks of information related to the test three times, took a practice test (receiving no feedback), waited five minutes, and then took a quiz.













In **CONDITION 3**, students read blocks of information related to the test just once, took three different practice tests (receiving no feedback), waited five minutes, and then took a quiz.













While **CONDITION 1** yielded better results on the quiz, those in **CONDITION 3** scored significantly better one week later.

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Several additional studies have confirmed the importance of repeated recall in solidifying information in long-term memory. Implications include the value of in-class practice quizzes in class, group discussions (additional recall), and students quizzing one another.

(If you would like additional information about this phenomenon please contact: <a href="mailto:todd-zakrajsek@med.unc.edu">todd-zakrajsek@med.unc.edu</a>.)

## **Resources**:

Karpicke, J.D., & Roediger, H.L. (2007). Repeated retrieval during learning is the key to long-term retention. Journal of Memory and Language, 57, 151-162.

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