

Teaching of Heading Structure to Augment Highlighting Strategy

Hung-Tao Chen Department of Psychology, Eastern Kentucky University



INTRODUCTION

- Highlighting is often considered an ineffective studying strategy
- The problem might be that students do not know how to highlight
- Questions:
 - Would teaching students heading structure promote effective highlighting behavior?
 - Does more effective highlighting behavior translate to learning gains?

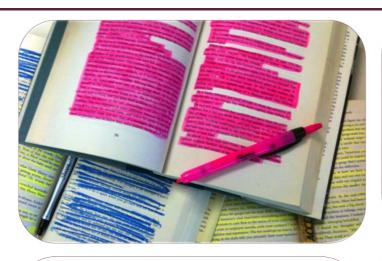
METHOD

Design & Materials (*n*=306)

Between-subjects design with four conditions: 1)Purpose Only,
2)Purpose + Guiding Questions,
3)Purpose + Structure, and 4)
Purpose + Guiding Questions +
Structure.

Procedure

- 1. Teaching Material Presentation
- 2. Reading & Highlighting
- 3. Recall Task
- 4. Knowledge Transfer Task



RESULTS

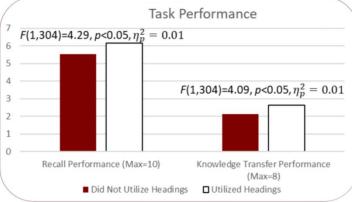
- Highlighting strategy likely has low utility despite heading structure instruction
- Teaching APA-style text structure increased the likelihood of effective highlighting strategy
- Effective highlighting strategy led to better recall and knowledge transfer (but the effect was small)

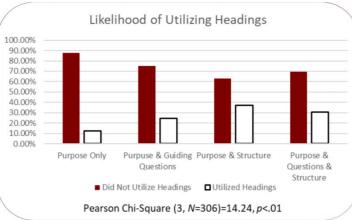
REFERENCES

Dunlosky, J., Rawson, K. A., Marsh, E. J., Nathan, M. J., & Willingham, D. T. (2013). Improving students' learning with effective learning techniques: Promising directions from cognitive and educational psychology. *Psychological Science in the Public Interest*, 14(1), 4-58.

Lemarié, J., Lorch Jr, R. F., Eyrolle, H., & Virbel, J. (2008). SARA: A text-based and reader-based theory of signaling. Educational Psychologist, 43(1), 27-48.

Miyatsu, T., Nguyen, K., & McDaniel, M. A. (2018). Five popular study strategies: Their pitfalls and optimal implementations. *Perspectives on Psychological Science*, 13(3), 390-407.







- 1. Abstract
- 2. Introduction
- 3. Method
 - 1. Participants
 - Materials
 - 3. Procedure

