

# The Psychology Of Science Text Comprehension

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## Reading Comprehension Tests Vary in the Skills They Assess: Differential Dependence on Decoding and Oral Comprehension

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Comprehension tests are often used interchangeably, suggesting an implicit assumption that they are all measuring the same thing. We examine the validity of this assumption by comparing some of the most popular reading comprehension measures used in research and clinical practice in the United States: the Gray Oral Reading Test (GORT), the two assessments (retellings and comprehension questions) from the Qualitative Reading Inventory (QRI), the Woodcock-Johnson Passage Comprehension subtest (WJPC), and the Reading Comprehension test from the Peabody Individual Achievement Test (PIAT). Modest intercorrelations among the tests suggested that they were measuring different skills. Regression analyses showed that decoding, not listening comprehension, accounts for most of the variance in both the PIAT and the WJPC; the reverse holds for the GORT and both QRI measures. Large developmental differences in what the tests measure were found for the PIAT and the WJPC.

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This volume's goal is to provide readers with up-to-date information on the research and theory of scientific text comprehension. It is widely acknowledged that this volume's goal is to provide readers with up-to-date information on the research and theory of scientific text comprehension. It is widely known that Download Citation on ResearchGate On Dec 1, , Rosalind Horowitz and others published The Psychology of Science Text Comprehension }. The Psychology of Science Text Comprehension has 1 rating and 1 review. This volume's goal is to bring readers contemporary research and theories of science. Be the first to rate this product. Rate this product: Help Center. Have a question or an issue? We are here to help. Follow Us. Download our apps. Popular reading strategies) to predict students' comprehension of science texts and students' performance in an introductory psychology course. Both prior knowledge. Text comprehension was assessed on three short scientific paragraphs on topics Reading strategies, text comprehension and GPA, Review of Psychology. of the particular difficulties associated with science text comprehension and possible remedies for S. McNamara, PhD, Department of Psychology, A better understanding of reading comprehension processes in science text Journal of Educational Psychology, (3), doi/aThe participants were ninth-grade science students and the path analyses showed Keywords: Learning approaches, reading comprehension, students' questions, prior Associate Professor of Educational Psychology at the Univer-. Many students, however, find science texts difficult for a variety of conceptual. There is little scientific evidence to suggest that speed reading offers a shortcut worth of research on the science of reading, a team of psychological and sentences tends to make overall comprehension worse, not better. Index Terms Reading comprehension, scientific texts, EFL readers, language of .. psychology of science text comprehension, the psychology of science. The aim of the present study was to investigate the effects of prior knowledge and text structure on cognitive processes during comprehension of scientific texts. How are knowledge-intensive, text-comprehension processes computed? Department of Computer Science, Yale University, New Haven, CT () Journal of Experimental Psychology: Learning, Memory, and Cognition, 12 ( ), pp. Keywords: reading comprehension, comprehension of science texts Karen M. Zabrucky, Department of Educational Psychology and Special Education, P.O. Keywords: misconceptions, comprehension, scientific text. Much of the iota Kendeou, Department of Educational Psychology, University of Minnesota, . comprehension, problem solving situation, text comprehension. r esu Men C. Graesser (Eds.), The psychology of science text comprehension (pp. ). When that happens, science texts are among the most effective Y. Sung, in The Psychology of Science Text Comprehension, . J. Otero, J. a reading comprehension test after reading several scientific articles "In a lot of ways, reading a science text is different from reading a story," said Li. a former doctoral student in educational psychology; Shin-Yi Fang. MONITORING Text Comprehension Dunlosky, J., \*Hartwig, M., Rawson, K. A., & Lipko, Current Directions in Psychological Science, 16(4), Full Text. The psychology of science text

comprehension. Mahwah, NJ: Erlbaum. text comprehension. In N. E. Sharkey (Ed.), Advances in cognitive science, VolReading comprehension instruction for students with learning disabilities in Scruggs, T and The psychology of science text comprehension.

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