An Analysis on the Compound Structures of Science Terminology and Their Impacts on Learners' Learning

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Terminology refers to a collection of conceptual naming in a particular subject. Both the scientific language and its special word forms are necessary and essential to science and technology applications. Therefore, it is important to learn science through them, which also becomes a fundamental task to develop students' comprehensive ability to read scientific papers. Compound words and structures refer to two or more free morphemes combined into a word, under certain structural rules, of which at least one morpheme is the semantic core of the whole compound unit. Though this conceptual system is not obvious, the importance of its lexical combination rules cannot be ignored. The main purposes of this study are to explore the principles of compound words formation, to analyze semantic analysis and understanding of science textbooks used in secondary schools. The research methods conducted consist of a text analysis and teachers' interviews. Based on the results, a conclusion, together with a discussion of the implications of the findings, suggests some practical guidelines for curriculum planning and teaching, textbook editing and reviewing, translating and compiling academic terminologies in order to deepen the learners' learning.

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