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## Students' Abstraction Process through Compression to Thinkable Concepts: Focusing on Using "How To" in Learning Units of Lesson Sequences to Provide a Tool in Conducting Students' Concepts

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### ABSTRACT

The purpose of this study is to analyze "how to" in the students' abstraction process through compression to thinkable concept under classroom using Lesson Study and Open Approach. Data for this study were collected by using a teaching experiment, with the four of first graders as targeted. The research results revealed that in the students' abstraction process, they compressed computable symbols and conducted 10 as "how to" in their thinking and thinkable concept at the same time. It is shift steadily from performing sequence of compression in students' thinking from actions being linked together in increasingly sophisticated ways.

### KEYWORDS

Lesson Study; Open Approach; Precept; Compression to Thinkable Concept; How to; Learning Unit

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