

**MULTIPLE REPRESENTATIONS IN CHEMICAL
EDUCATION: 4 (MODELS AND MODELING IN SCIENCE
EDUCATION)**

Eric Jaeckel

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While the triplet relationship has become a key model for chemical education, there metaphor as a framework for external representations in science teaching.

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Levels. in. Chemical. Education. Maurice Cheng and John K.
Gilbert Abstract The in Chemical Education, Models and
Modeling in Science Education 4, DOI.

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Public Private. Action research to promote the formation of
linkages by chemistry students between the macro, submicro,
and symbolic representational levels Vesna Ferik Savec, Irena
Sajovic, Katarina S. An error has occurred.

Theresearchdatashowedthatgenerallymoststudentshadagoodunderstandi

An unknown error has occurred. Many first year university
non-major chemistry students had difficulties understanding
chemical concepts due to a limited background knowledge in
chemistry and mathematics.

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research data showed that generally most students had a good
understanding of the macroscopic and symbolic levels of
chemical representation of matter.