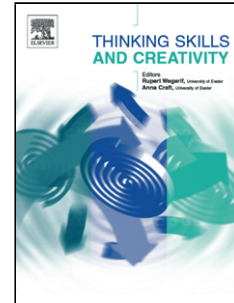


Accepted Manuscript

Title: The Effectiveness of Enrichment Test Instruments Design to Measure Students' Creative Thinking Skills and Problem-Solving

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PII: S1871-1871(18)30029-4
DOI: <https://doi.org/10.1016/j.tsc.2018.02.011>
Reference: TSC 487

To appear in: *Thinking Skills and Creativity*

Received date: 1-2-2018
Accepted date: 3-2-2018

Please cite this article as: Hidayat, Taufiq., Susilaningsih, Endang., & dan Cepi, Kurniawan., The Effectiveness of Enrichment Test Instruments Design to Measure Students' Creative Thinking Skills and Problem-Solving. *Thinking Skills and Creativity* <https://doi.org/10.1016/j.tsc.2018.02.011>

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The Effectiveness of Enrichment Test Instruments Design to Measure Students' Creative Thinking Skills and Problem-Solving

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ABSTRACT

Students are to be prepared to face the challenges of 4th industrial revolution by having creative thinking skills and problem-solving. Study of preliminary show that test used in school has not been oriented to creative thinking skills and problem-solving. The purpose of this study is to develop enrichment test instruments which can be used to measure creative thinking skills and problem-solving that achieve valid and reliable criteria. The study belongs to *research and development* applying the 4D model. Stages which were developed involved preliminary studies, product design, development, and publication. The technique of data analysis used was qualitative and quantitative data analysis. Qualitative data analysis was done based on the investigate instrument validity sheet. Besides, quantitative data analysis aimed at finding out reliability level and test instruments effectiveness. The instrument validity is declared valid by experts and regarded reliable on each trial of development stage. Enrichment test instruments were effective to measure students' creative thinking skills and problem-solving based on the analysis of creative thinking and problem-solving competence, mean of learning result increases, and completeness proportion which achieved 100%. It is inferred that the enrichment test instruments developed can measure students' creative thinking skills and problem-solving.

Keywords: enrichment test instruments; creative thinking skills; problem-solving; acid-base; high school

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