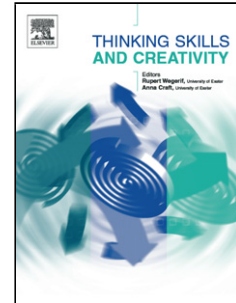


## Accepted Manuscript

Title: Learning Under Time Pressure: Learners Who Think Positively Achieve Superior Learning Outcomes from Creative Teaching Methods Using Picture Books

Authors: Chih-Yung Tsai, Ya-Han Chang, Chia-Lun Lo



PII: S1871-1871(16)30108-0  
DOI: <https://doi.org/10.1016/j.tsc.2017.11.003>  
Reference: TSC 461

To appear in: *Thinking Skills and Creativity*

Received date: 11-9-2016  
Revised date: 22-4-2017  
Accepted date: 6-11-2017

Please cite this article as: Tsai, Chih-Yung., Chang, Ya-Han., & Lo, Chia-Lun., Learning Under Time Pressure: Learners Who Think Positively Achieve Superior Learning Outcomes from Creative Teaching Methods Using Picture Books. *Thinking Skills and Creativity* <https://doi.org/10.1016/j.tsc.2017.11.003>

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**Learning Under Time Pressure: Learners Who Think Positively Achieve Superior  
Learning Outcomes from Creative Teaching Methods Using Picture Books**

Chih-Yung Tsai <sup>a,\*</sup>,

<sup>a</sup> *Department of Education, University of Taipei, No.1, Aiguo West Road, Taipei 10048,  
Taiwan*

\* Corresponding author. Tel.: +886 2 23113040 #8922  
*E-mail address: cytsai@utapei.edu.tw (C.-Y. Tsai).*

Ya-Han Chang <sup>a</sup>

<sup>a</sup> *Department of Education, University of Taipei, No.1, Aiguo West Road, Taipei 10048,  
Taiwan*

*E-mail address: janice201309@gmail.com*

Chia-Lun Lo <sup>b</sup>,

<sup>c</sup> *Department of Health- Business Administration, Fooyin University, 51 Jinxue Rd., Daliao  
Dist., Kaohsiung City 83102, Taiwan*

*E-mail address: [allenlo.tw@gmail.com](mailto:allenlo.tw@gmail.com)*

**Highlights**

- The learning outcome was measured creativity and imagination through the performance after adopting creative thinking teaching materials.
- A “E.T. Thinker” can obviously improve the subjects' achievements of creativity and imagination between pre-test and post-test.
- The negative effect brought by positive emotions and time pressure will able to improve and enhance the effectiveness of creative teaching with both ways.
- For creative teaching curriculums, the conclusion of this study can bring a significant practical application value.

**ABSTRACT**

This study aimed to verify the effectiveness of creative thinking-based teaching using picture books in elementary schools, and investigated the effects of positive emotions and

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