

Attitudes and Effectiveness as Measures of Student Satisfaction with Team-Based Learning

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- Extensive implementation of TBL
- Applying course materials to problem solving via TBL is the primary goal of TBL
- Introduction of TBL Student Assessment Instrument (TBL-SAI)
- Application of TBL-SAI
- Accountability, preference, and satisfaction in TBL



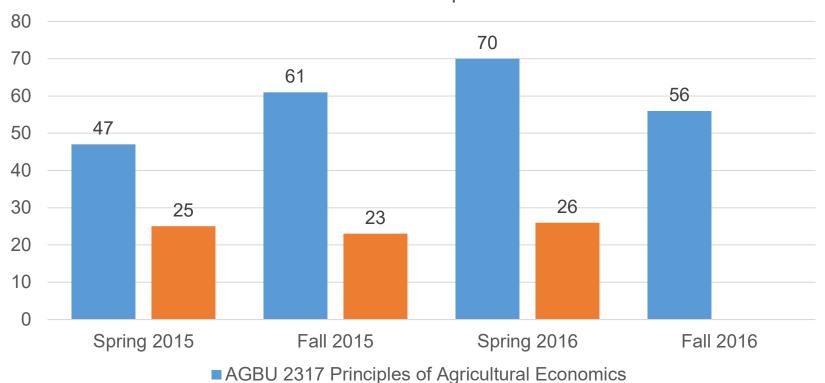
Objectives

- Classify the questions in TBL-SAI and create reliable and distinctive subscales
- Investigate the relationships among the new subscales
- Assess the factors associated with satisfaction towards TBL consisting of positive attitude and effectiveness subscales



TBL Implemented in 2 Classes (n=308)

Number of Students per Semester



- AGBU 4363 Agricultural Sales & Consulting



This study used 31 questions developed by Mennenga (2010). Each question is assessed on a 1-5 Likert Scale with 5 being "strongly agree".

Accountability (8)

- Preparation (2)
- Contribution (6)

Preference (14)

- TBL recall (5)
- Lecture recall (3)
- TBL distraction (3)
- Lecture distraction (3)

Satisfaction (9)

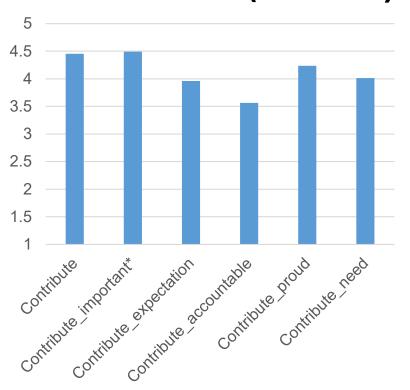
- Attitude (6)
- Effectiveness (3)

(numbers in the parentheses indicate the number of questions for each construct)

Preparation (α =0.60)

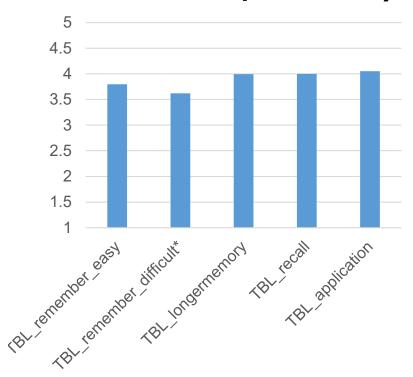
5 4.5 4.28 3.67 3.5 3 2.5 1.5 Prepare need ■ Prepare study

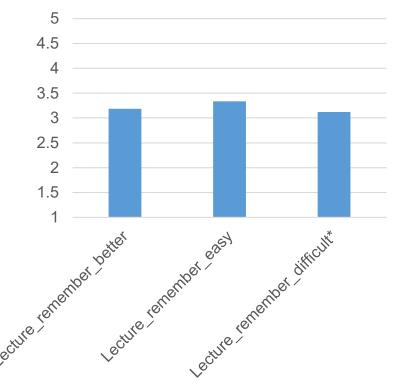
Contribution (α =0.68)



TBL Recall (α =0.79)

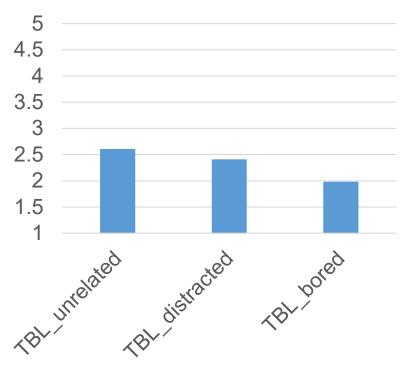
Lecture Recall (α=0.65)



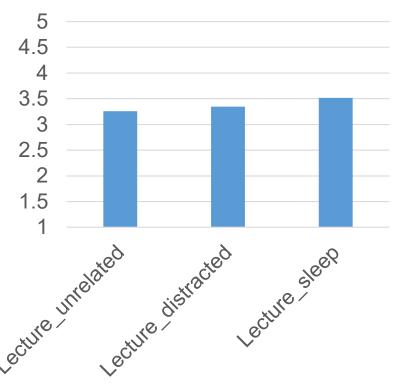




TBL Distraction (α=0.80)



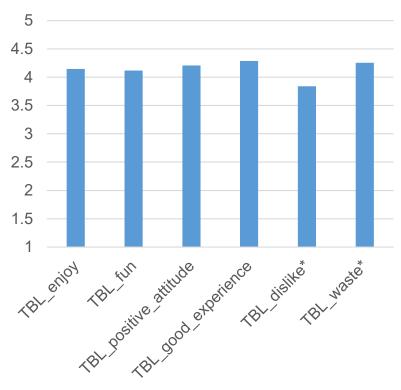
Lecture Distraction (α=0.74)



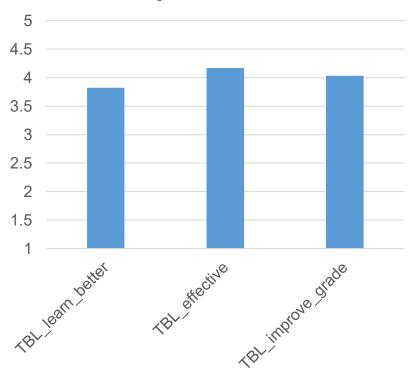




Positive Attitude (α=0.92)



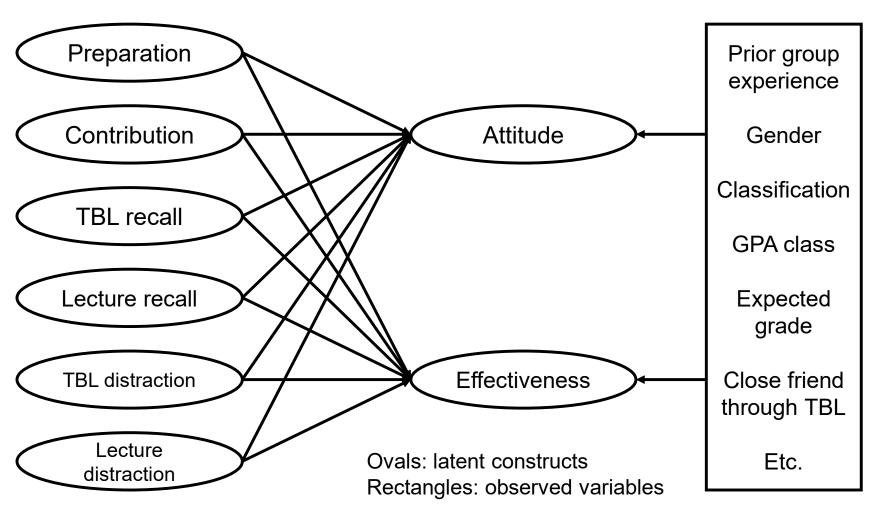
Effectiveness (α=0.88)





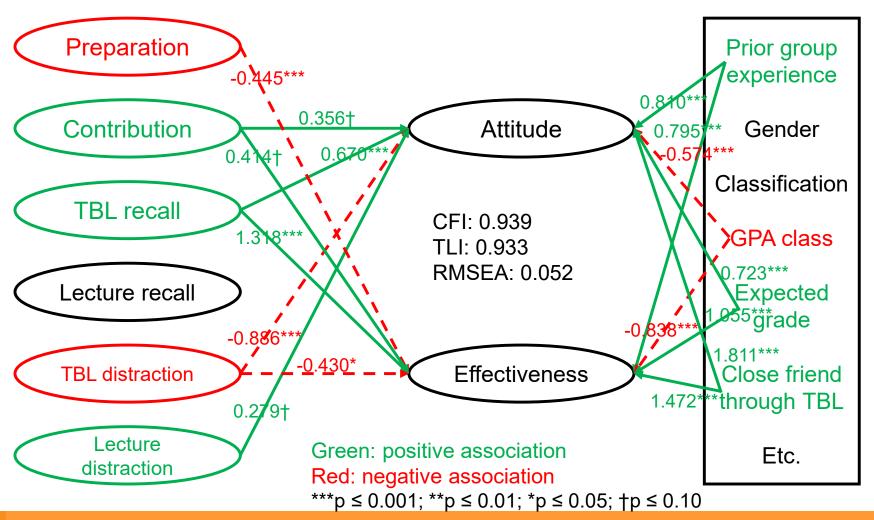


Structural Equations Model (SEM)





Structural Equations Model (SEM): Results



Discussions

- Gap between intention of preparation and actual preparation
- Negative association between preparation and effectiveness
- Contribution to group work is essential and is positively related with satisfaction of TBL
- Better recall and less distraction in TBL may contribute to higher satisfaction
- Other factors such as prior group work experience and developing a close friend may help improve satisfaction