

# INCREASING STUDENT LITERACY THROUGH SCIENCE TEACHING TECHNIQUES THROUGH ANALYZING CASE STUDY READINGS

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### BACKGROUND

- Middle school students often struggle with informational text readings in science and struggle pulling important information.
- These students struggle with real-world application and literacy levels.
- Case studies are a good way to help students learn how to understand how to read information text and relate topics to real-world ideas.

### METHODS

PRE

- STAR test scores
- Case study survey

DURING

- Case study reading
- Likert scale responses to case studies
- Guided Journal responses

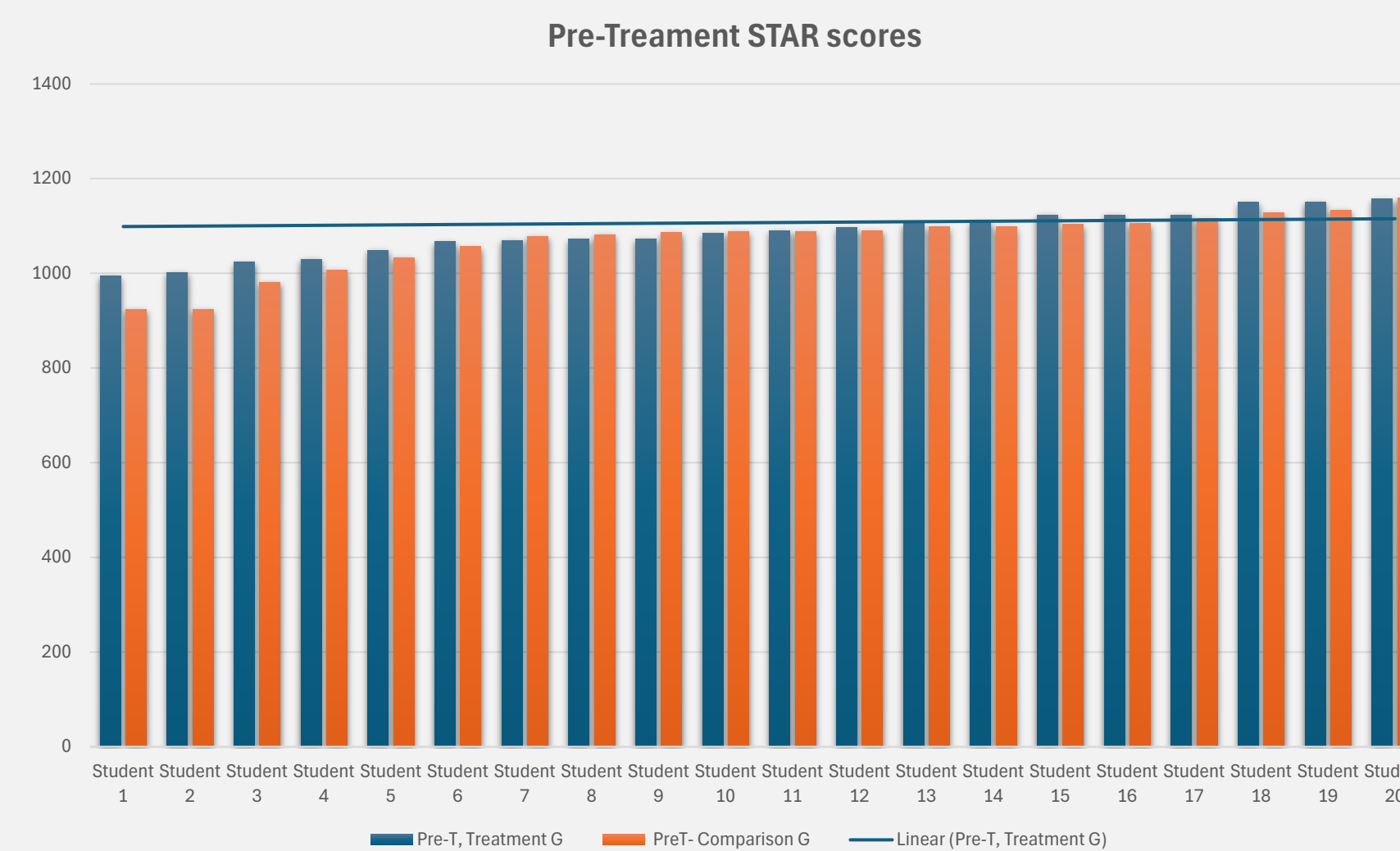
POST

- STAR test scores
- Case study survey

### ACTION RESEARCH QUESTIONS

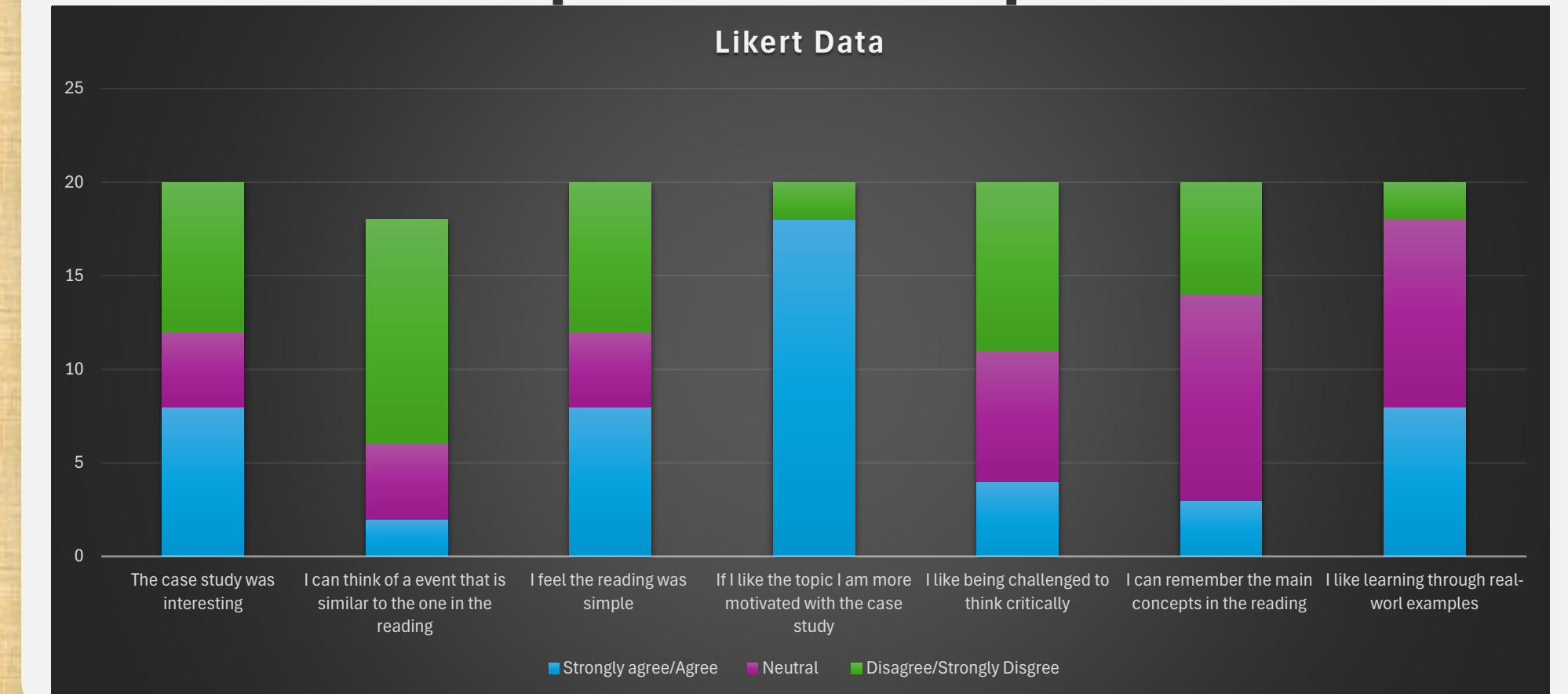
- To what extent can implementation of case studies increase student literacy?
- To what extent can case studies help engage students in current scientific events?
- To what extent can case study readings help improve students informational text reading ability?

### KEY FINDINGS

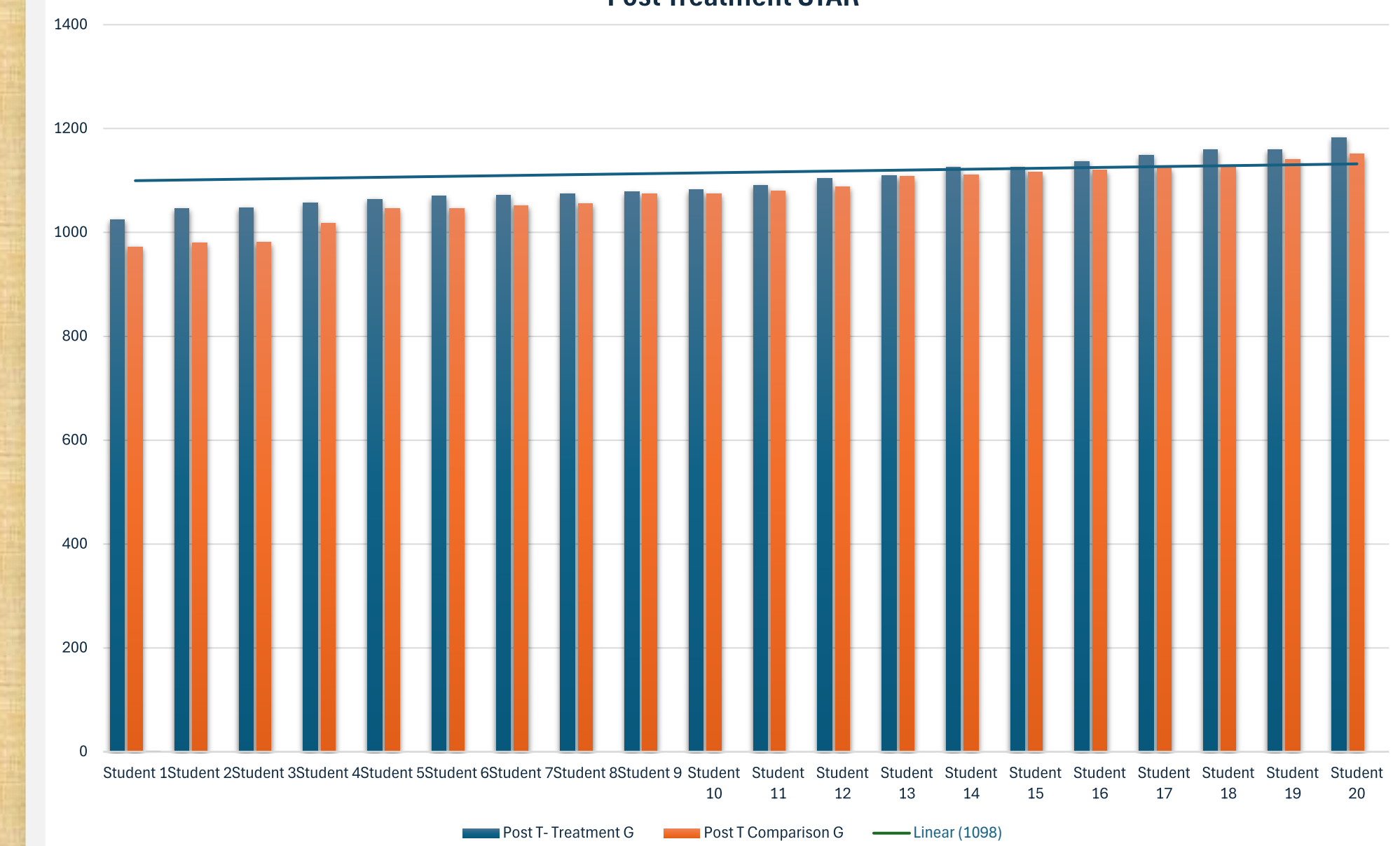


- During pre-treatment STAR testing 60% of students scored below 8<sup>th</sup> grade reading level.
- Students showed the lowest scores in the informational text area

### Sample Likert responses



### Post Treatment STAR



### TAKE AWAYS

- STAR scores increased after treatment from 60% below literacy level to 55% below literacy level
- The Treatment group had a statistically significant increase in scores post treatment