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2019 COHORT MEMBER

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Neely Bryan Elementary

Hands on Reading Through Novel Engineering

Target Audience

- PK-5, pilot implementation in PreK, 1, and 4/5 reading classrooms
- District-wide pilot and training (1,000 teachers and 78 campuses)

Interventions

- In-class support and modeling for guided reading
- Incentives for reading level increase
- Supported teachers in evaluating student achievement

Resources Utilized

- Selected from 52 applicants for an OTI grant for \$350K
- Small Group intervention
- Data tracking systems
- Professional development in guided reading/NE, small group system and PD, grant application, makerspace materials, novels, donations of books, reading teachers

PROJECT OUTCOMES

PILOT NOVEL ENGINEERING IN CLASSROOMS

Why focus on novel engineering?

- Enhance reading comprehension
- Engage all level of learnings
- Introduce realistic engineering
- Build 21st century skills

What does novel engineering look like in action?

- Students in PK4 using existing classroom literature as the basis for engineering design challenges that help them:
 - Identify problems
 - Design realistic solutions, and
 - Engage in the Engineering Design Process
- Students in 3-5 grades when reading *The One and Only Ivan* novel, lessons are focused on:
 - Vocabulary and problem & solution,
 - Character analysis
 - Writing compositions, and
 - Promoting reading fluency and comprehension in both English and Spanish

TRAIN TEACHERS IN NOVEL READING ACROSS DISTRICT

- District Partnership Reading Department- "Cool Schools" Summer Program, which led to 78 schools across the district to participate in the Novel Engineering program, including guided reading interventions
- Trained 1,000 employees by scaling what teachers at John Neely Bryan implemented

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presentation link:

