

Nadalee Williams Cincinnati Public Schools



BACKGROUND

level modeling and reasoning problems.

use models to represent multi-step word problems. category on the End of Year state assessment.



- The Goal: to increase student math performance on grade-
- The problem: On pre-assessments, students did not often Students also struggled in the Modeling and Reasoning

Goal Statement: 80% of students will use models to solve real world problems involving percentages and fractions.





involving percentages and fractions to 80%

The Drivers: Grade-level work, Instructional Practices, Data-informed decision making

THEORY



<u>The Aim</u>: Increase the percentage of students using models to solve real world problems

- <u>The Population</u>: 6th grade students at Bond Hill Academy on Math Specialist's caseload

LEARNING CYCLES



- SWBAT use models to solve problems involving percentages and fractions.
- Models include tape diagrams, double number lines, tables, fraction tiles
 - PLAN
 - <u>Teacher Actions</u>: introduce models, support students learning, facilitate discourse, model problem solving strategies
 - Student actions: work collaboratively, study mistakes, create concrete or visual models for all problems.
 - DO
- <u>Successful Strategies</u>: tape diagrams, double number lines
 - <u>Areas for improvement</u>: Tables, fraction tiles, problem solving strategies
 - STUDY









MOST PROUD & WHY

teachers. classmates.



• Students are able to explain the work that we do in small group to their classroom

• They have shown their models to their teachers and been confident enough to allow teachers to display their work to

Finding enough time to dive deep into the grade level concepts and models while ensuring students did not miss the whole group instruction that they required

GREATEST CHALLENGE





Thank You!

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