



Becki Arlington

Math Specialist Woodford Paideia



# BACKGROUND



### Woodford Paideia Third Grade Math MAP

Fall: 4 (10.8%) Students Proficient Winter Goal: 24 (64.5%) Students Proficient

## THEORY



### Mathematics Key Driver Diagram (KDD)

DRAFT

Accountable Leader(s): Dr. Dawn Williams

Revision Date: 9.9.2019

### Global Aim

Educate all students with rigor and care in a culture of excellence to develop engaged citizens who are prepared for life and upon graduation from high school are enrolled, enlisted, or employed.

### SMART AIM

Aligning with CPS District strategic goals:

- increase math outcomes as evidenced by OST & EOC (K – 3<sup>rd</sup> – 6<sup>th</sup> – 9<sup>th</sup> grade);
- close the academic gap between African American, Latino and Caucasian Students in above outcomes

We will increase math outcomes by 10 percentage points, from 59.5% to 69.5 (1731)% for 3" grade; 44.1% to 54.1(1206)% for 6" grade; 26.9% to 36.9(503)% for 8" & 51.5% to 61.6(615)% for 9" grade by May 2020\*.

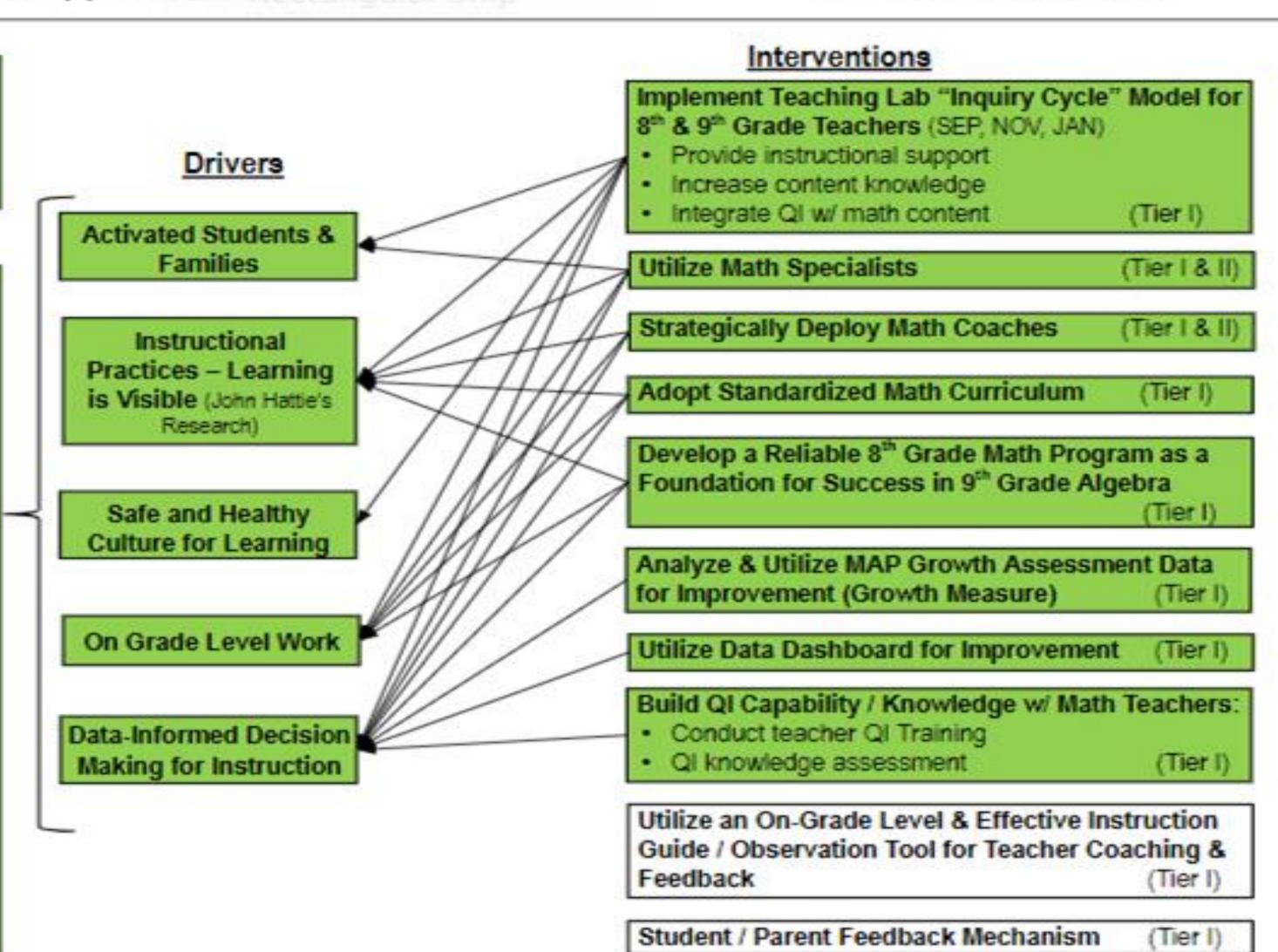
We will decrease the academic gap between

African American & Caucasians from X<sub>2</sub> to Y<sub>3</sub> for
K; from 30% to 20% for 3<sup>rd</sup> grade; 43% to 33% for 6<sup>rd</sup>
grade; and 53% to 43% for <u>first time</u> 9th grade

Algebra I students by May 2020.

We will decrease the academic gap between Latinx & Caucasians from X<sub>2</sub> to Y<sub>3</sub> for K; from 37% to 27% for 3° grade; 46% to 36% for 6° grade; and 74% to 64% for first time 9° grade by May 2020.

Within 8" grade math, we will increase % of African American & Latinx students scoring proficient on OST from 22% to 32% by May 2020 and decrease the achievement gap between African American & Caucasians from 48% to 38% and Latinx & Caucasians from 50% to 40% by May 2020, using Annual Measurable Objectives (AMO) as a guide.





## LEARNING CYCLES

"Do Now" PDSA

#### Global Aim: 100% of third grade students will score 50% or greater on the Winter MAP Assessment Plan → Do 📗 What do we PLAN to learn? What will we DO to achieve our goals?(strategies) Students will... Teacher will... Questions to answer with test: Can students show a weekly improvement by practicing current Ask guestions when they Teach with Mrs. grade level math skills in class and previously taught skills in a daily intervention group? Saddler in class Talk to peers when Work with small appropriate. redictions: (Qualitative & Quantitative) 100% of my students will be able to make progress on the weekly groups in class Use various math learning cycle. Students will grow by at least 1 problem (out of 6) strategies to work on during the weekly cycle. If students show mostery on the Give students problems baseline, an enrichment piece will be added to their work. immediate: Remain focused feedback when possible Apply best effort Students will complete a daily "Do Now" with 3 current grade level skills, 2 previously taught skills that students have not Reteach as soon as Work until completed mastered and 1 word problem based on current work. Teacher possible will review one high misconception problem after each day; students will then practice grade level skills with teacher and complete intervention practice with the math specialist. Create grade level and intervention stations to practice How will you measure this test? When will you collect data? This will be measured by collecting the Monday and Friday "Do Now" activities. The progress will be plotted on the MS run chart. Study How can we ACTivate our learning differently to When we **STUDY** our data what do we see? continue achieving our goals? (student voice) WHAT DID WE DO? LOOK AT THE DATA! WAS PDSA GOAL/OBJECTIVE MET? No school for Interventions Thanksgiving (3) matched need DID CLASS REACH SHORT-TERM 5 - 10 DAY GOAL? days) Used manipulatives WHAT DID YOU OBSERVE THAT WAS NOT PART OF to practice place Afternoon group missed twice last value concepts: COMPARE RESULTS TO PREDICTIONS & ANALYZE THE week because of Played games to Huddle Calls SYNTHESIZE LEARNINGS: practice skills. l observed that student gaps are quite large in place Value which affects so much of what students are Required to do in math. I need to move on to other Skills but will work with the classroom teacher to make PLAN FOR NEXT TEST CYCLE: Sure that students continue to practice place value skill ADAPT Test: During station time. o PLANS/ CHANGES FOR NEXT TEST? ADOPT Test Select changes to implement on a larger scale & develop an implementation plan & plan for sustainability

ABANDON Test

o Discard this change idea and try a

different one

### Weekly Cycle

Monday: Pre Assess  $\rightarrow$  small group intervention on remedial skills and small group station on current skills

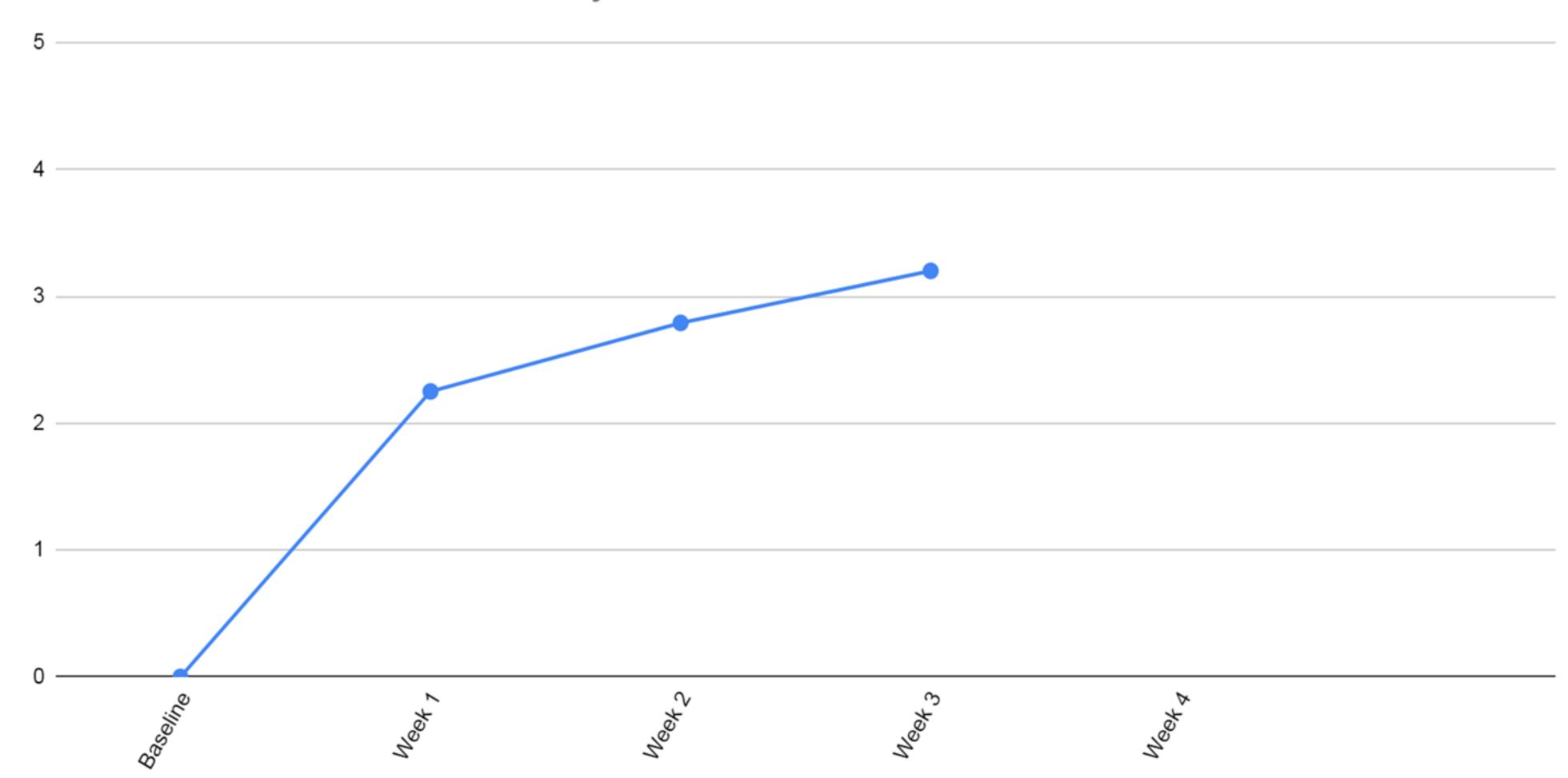
Tuesday-Thursday: small group intervention on remedial skills and small group station on current skills

Friday: Assessment and regroup students to start new cycle next week

# RESULTS



### Weekly Do Now Quick Check



# MOST PROUD & WHY



- ★Student Engagement has increased by using targeted small groups
- ★Students are involved in data collection and review
- ★Students are showing pride in their work and progress
- ★Students are communicating what they need to be successful

## GREATEST CHALLENGE



>TIME- As a math specialist, I have limited control over setting schedules and making student groups

>Student attendance is not good for a critical group of students



## TERM MEMBERS

Name Email

Name Email

Name Email

