



Evidence-based mathematics interventions:  
**Creating a  
coordinated  
system of  
interventions**



Kelly Pinkerton & Debbie Penn, Vail School District

March 16, 2022

# Webinar logistics

- **ALL Phone lines**, except for the phone lines of the presenters, **are muted and will remain muted** throughout the duration of the webinar.
- All questions will be fielded using the **Chat Feature**.
- Please take the time now to locate the chat box on your screen. If you don't see the chat box, click on the chat tab and it should appear.
- Although you may have questions for a particular presenter, we ask that you **please send your questions to ALL PANELISTS** in the pull-down menu. Type in your message and then Press Send.
- We encourage you to post your questions as they arise, and we will answer them during the Q & A segment.
- We are recording today's session to share with all registrants and members.



# Introductions

## **Kelly Pinkerton**

Director of Assessment  
& Innovative Learning



## **Delonna Darsow, PhD**

Product Champion

## **Debbie Penn**

Deputy Superintendent  
of Teaching & Learning



# Vail Unified School District

## System

- Enrollment – 14,705
- 8 Elementary Schools
- 4 Middle Schools
- 2 K-8 Schools
- 2 K-12 Schools
- 5 High Schools

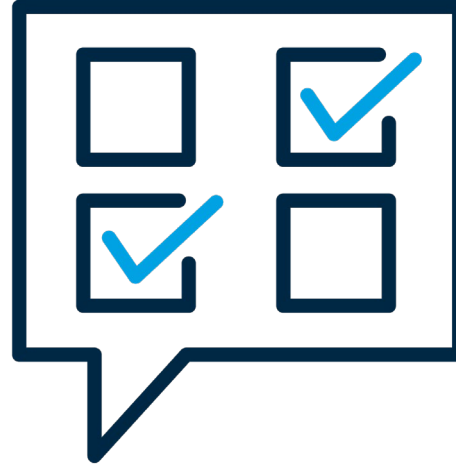
## Student Population

- ✓ 21% Free or Reduced Lunch
- ✓ 68% White
- ✓ 23% Hispanic or Latino
- ✓ 3% Black
- ✓ 3% Two or More Races
- ✓ 2% Asian/Pacific Islander
- ✓ 1% American Indian/Alaskan Native



# Agenda

- Defining the problem
- Moving forward
- Lessons learned
- What's next



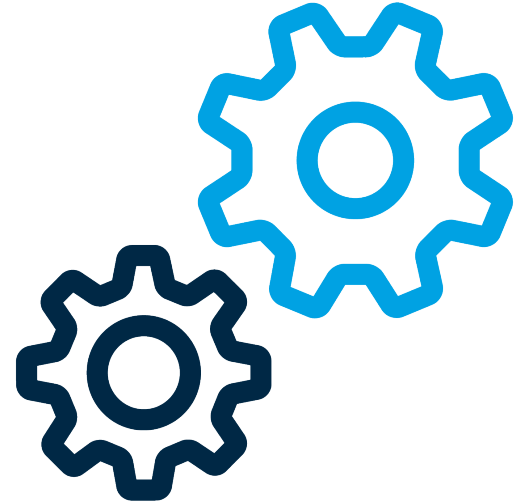


# Vail's math scores

Where were we at?

# Problem

- With accountability, came our first look at how Vail students compared across the state of Arizona
- Our performance was below neighboring districts



# Other factors



Inconsistent  
instructional  
practices



Lack of progress  
monitoring

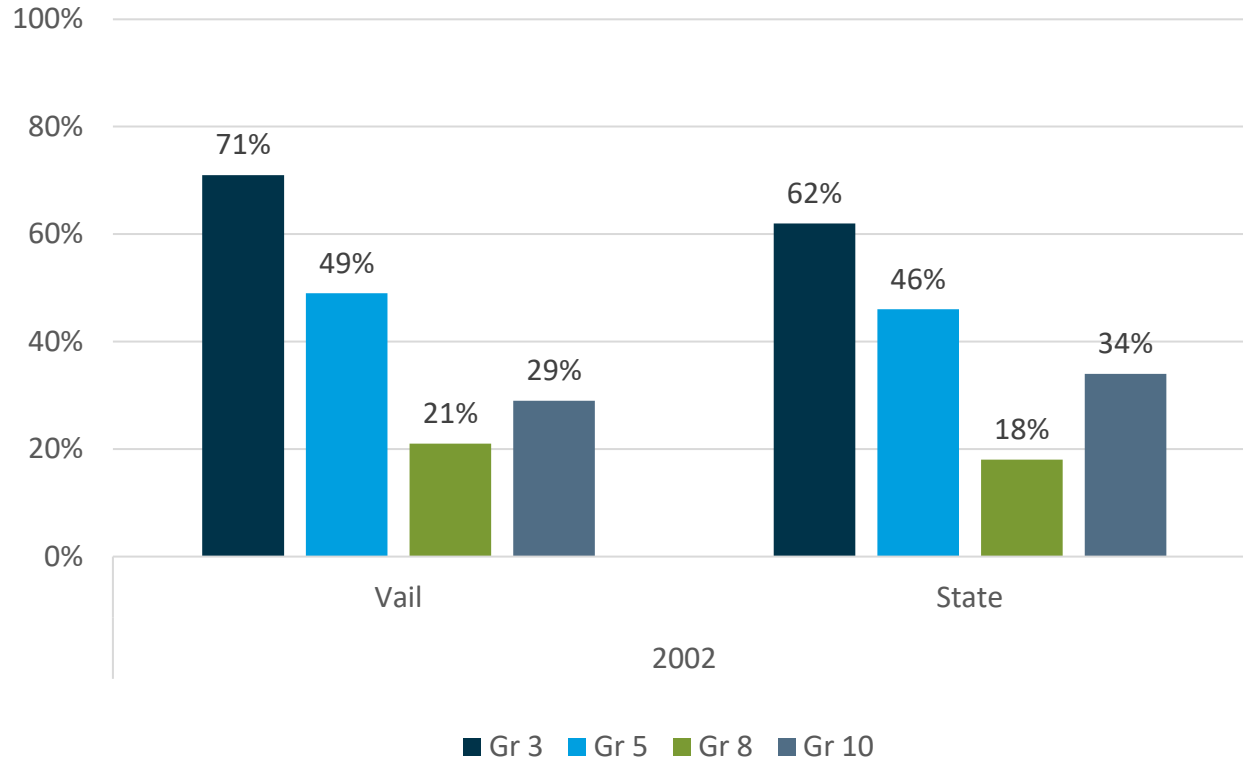


Unidentified  
performance goals





# State Test: AIMS Math



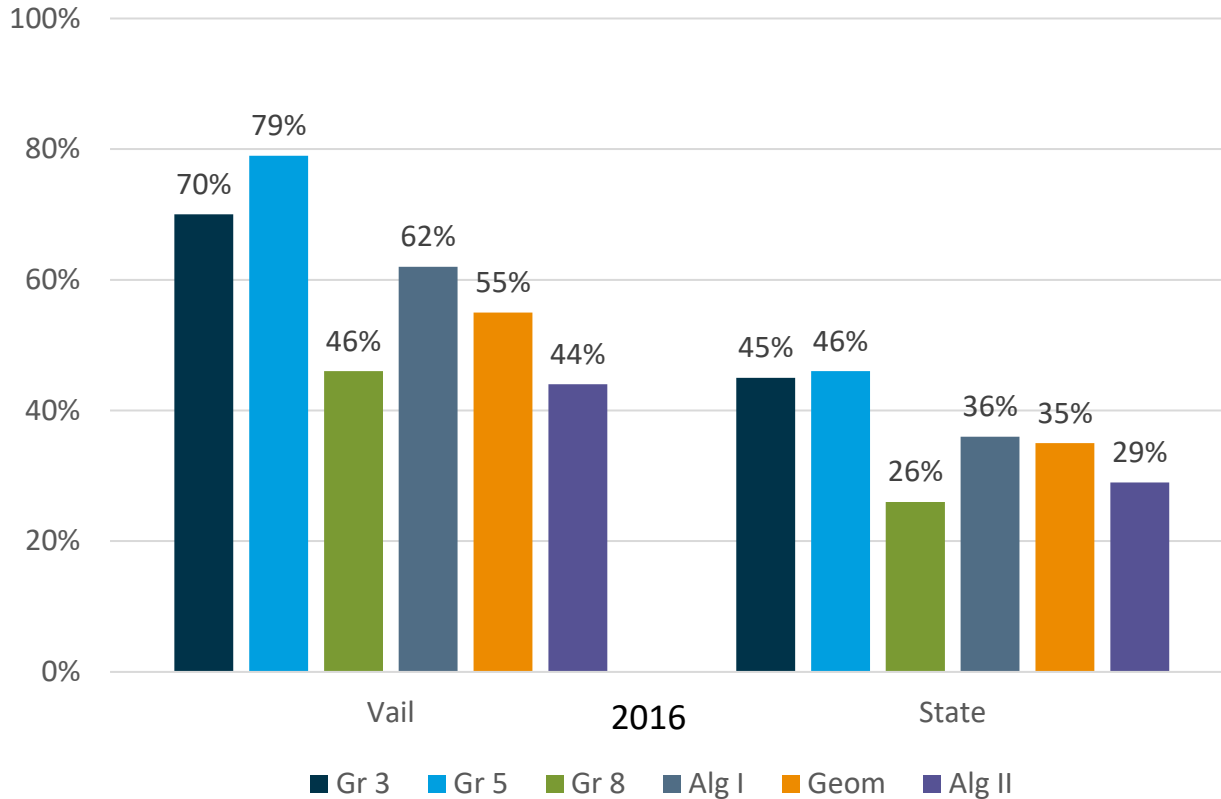
# What was next?

## Instructional change was needed

- Mastery model
- Fluency
- Instructional best practices



# State Test: AzMERIT Math





# The Journey

Where are we going?

# What were your goals?

- Similarities to past program
- Added rigor
- Individual intervention component

## ***Question to answer:***

What are we doing with students who were continuously in the frustration range?

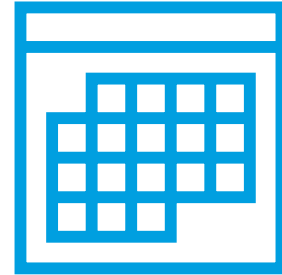


# Implementation calendar

Curriculum-Based Measures/Daily Math Skills since 2002

## Spring Math

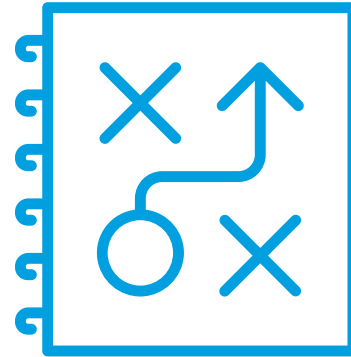
- 2017/2018 at three sites
- 2018/2019 at six sites
- 2019/2020 at all elementary sites



# What does the change look like?

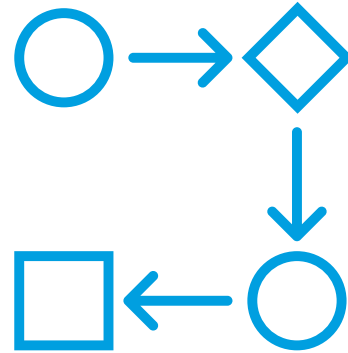
## Challenges

- Implementation fidelity
- Buy-in
- Staffing
- Middle school scheduling



# Intervention implementation

- Daily consistency
- Daily intervention
- Coach support
- Feedback





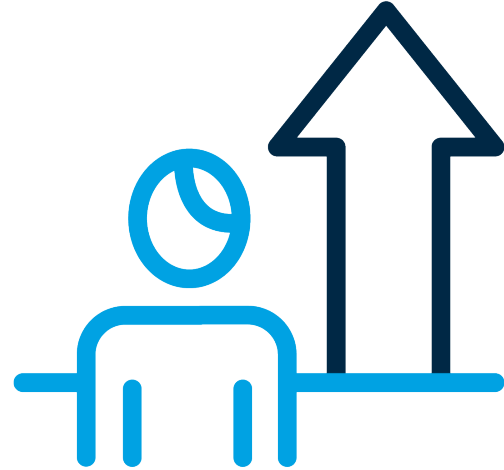


# Lessons Learned



# What went well?

- Implementation at K-5 sites
- Motivation
- Buy-in

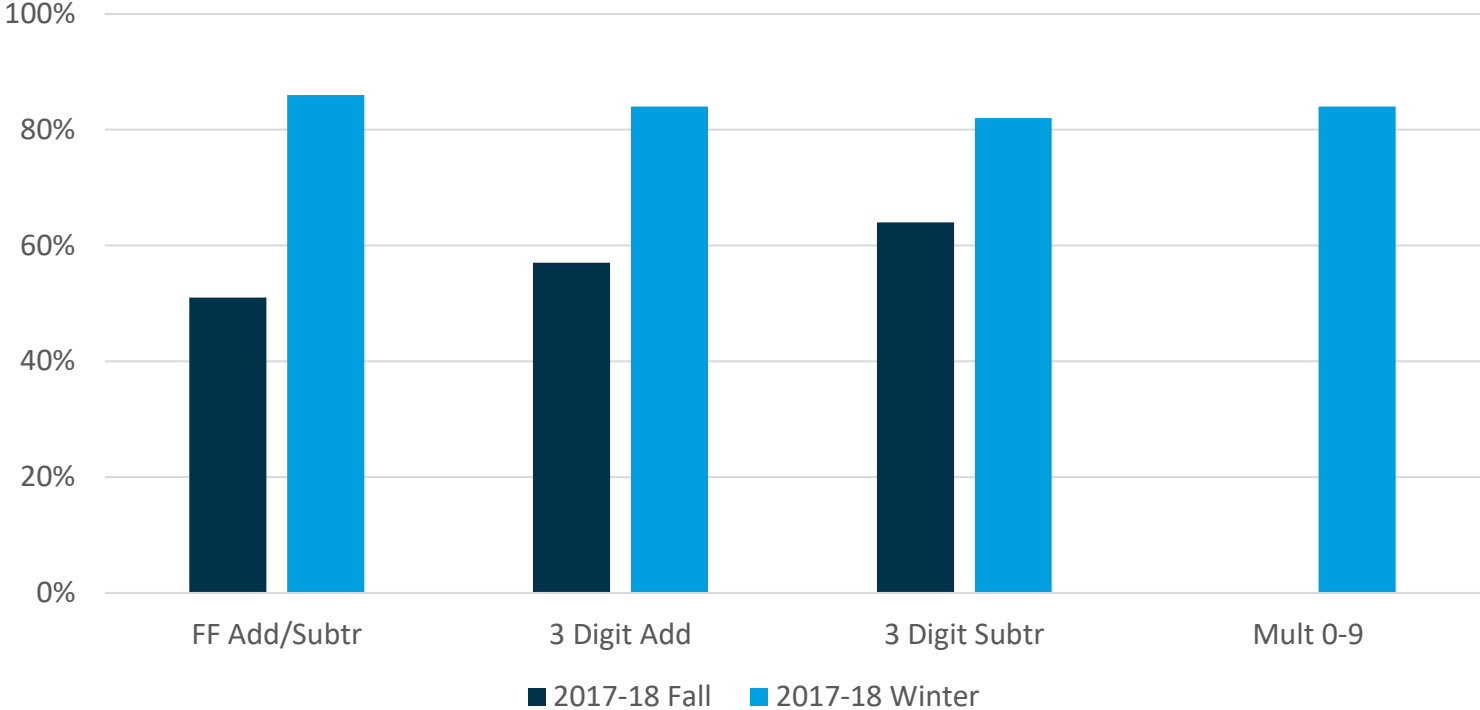


# How did your results change?

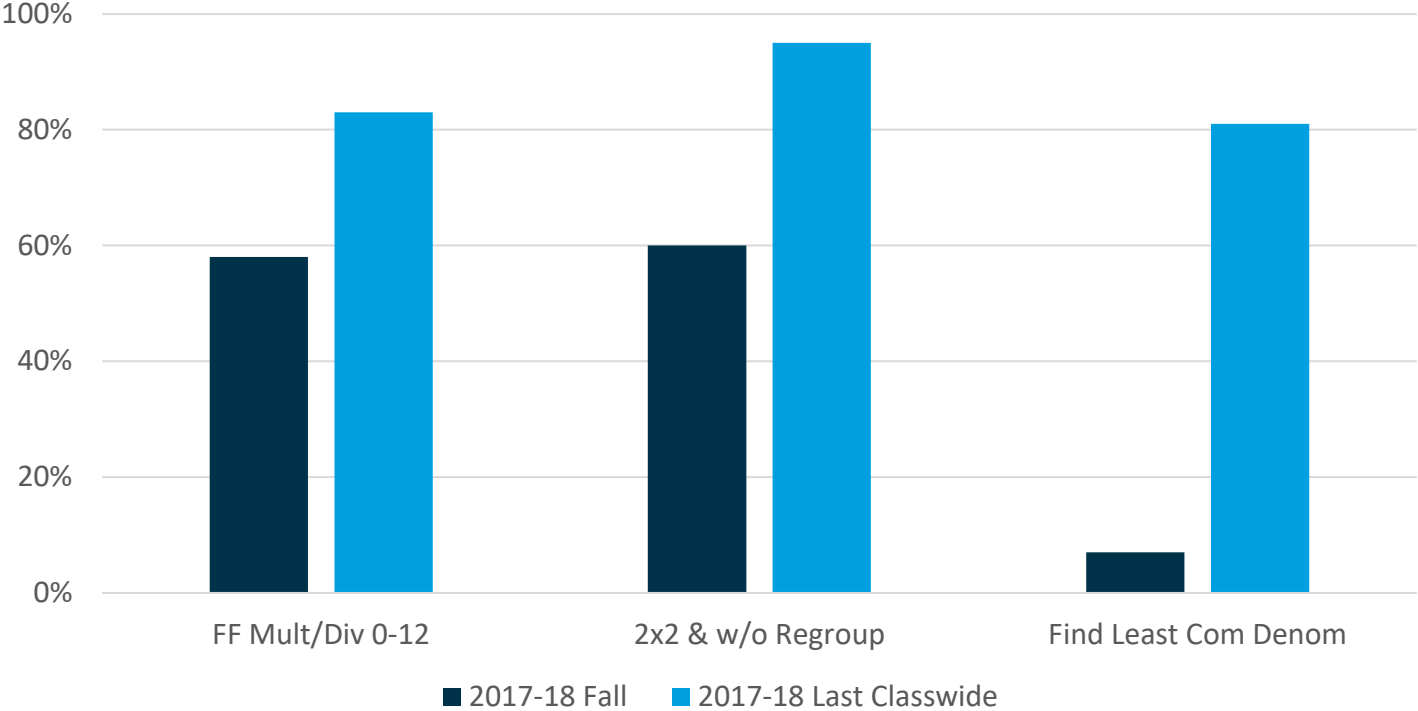
- Year to year changes in students created quicker classroom mastery
- Less need for classwide intervention
- More need for individual intervention



# Gr 3 - Students Above Target

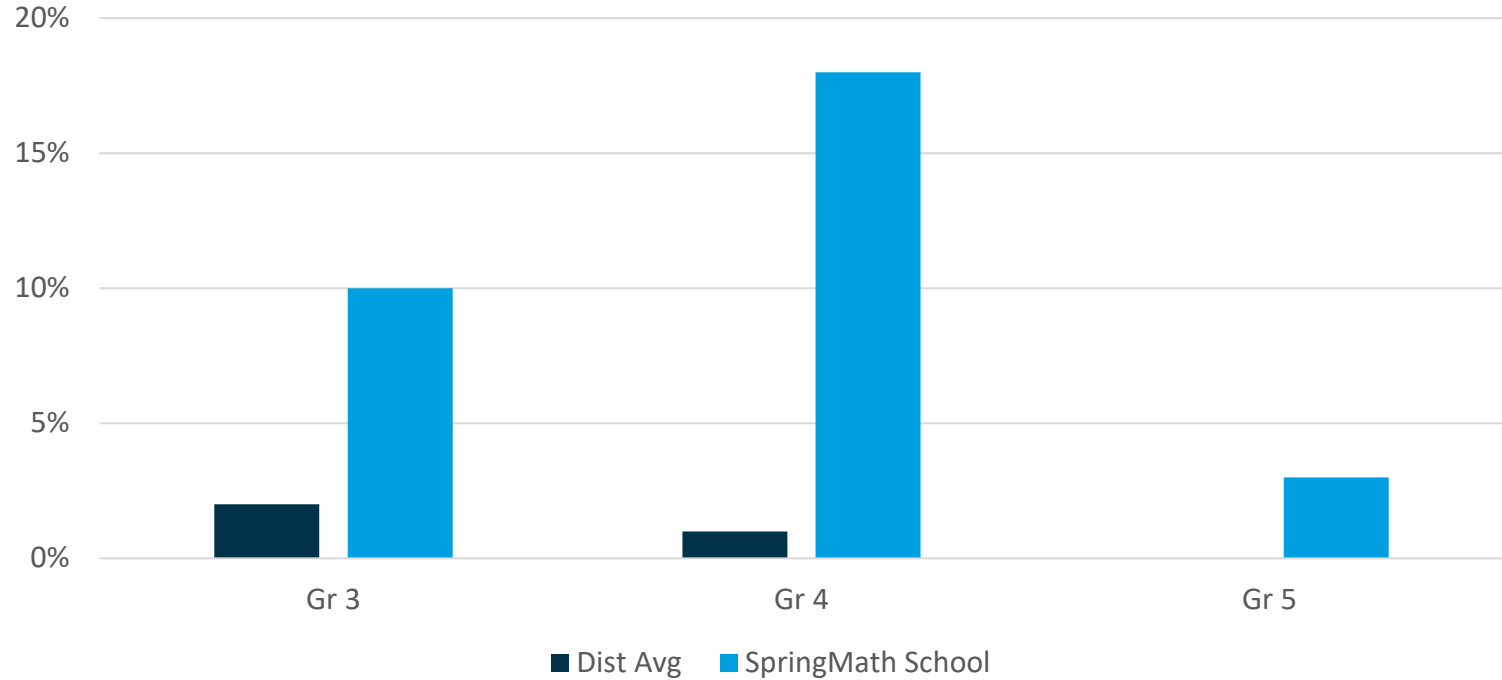


# Gr 5 - Students Above Target



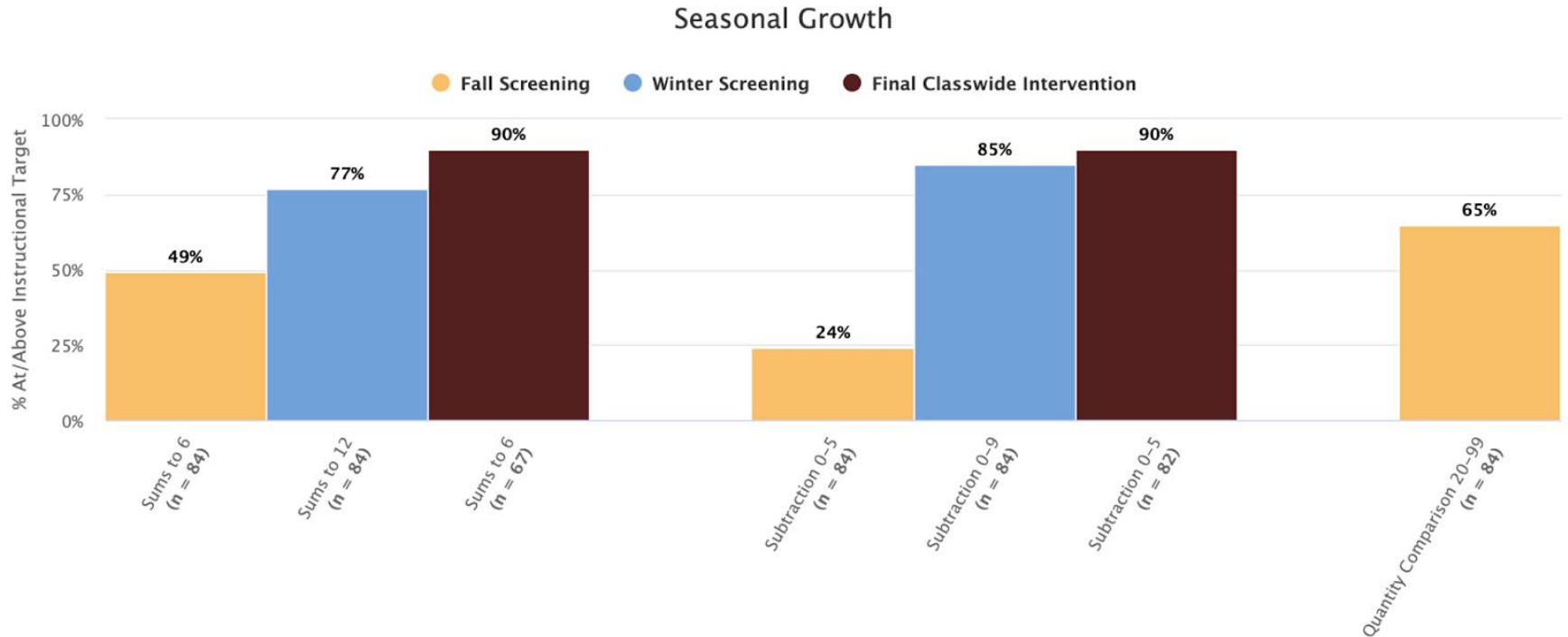
# Annual Growth on AzMERIT (State test)

2016-17 to 2017-18



# Current growth – 1<sup>st</sup> grade

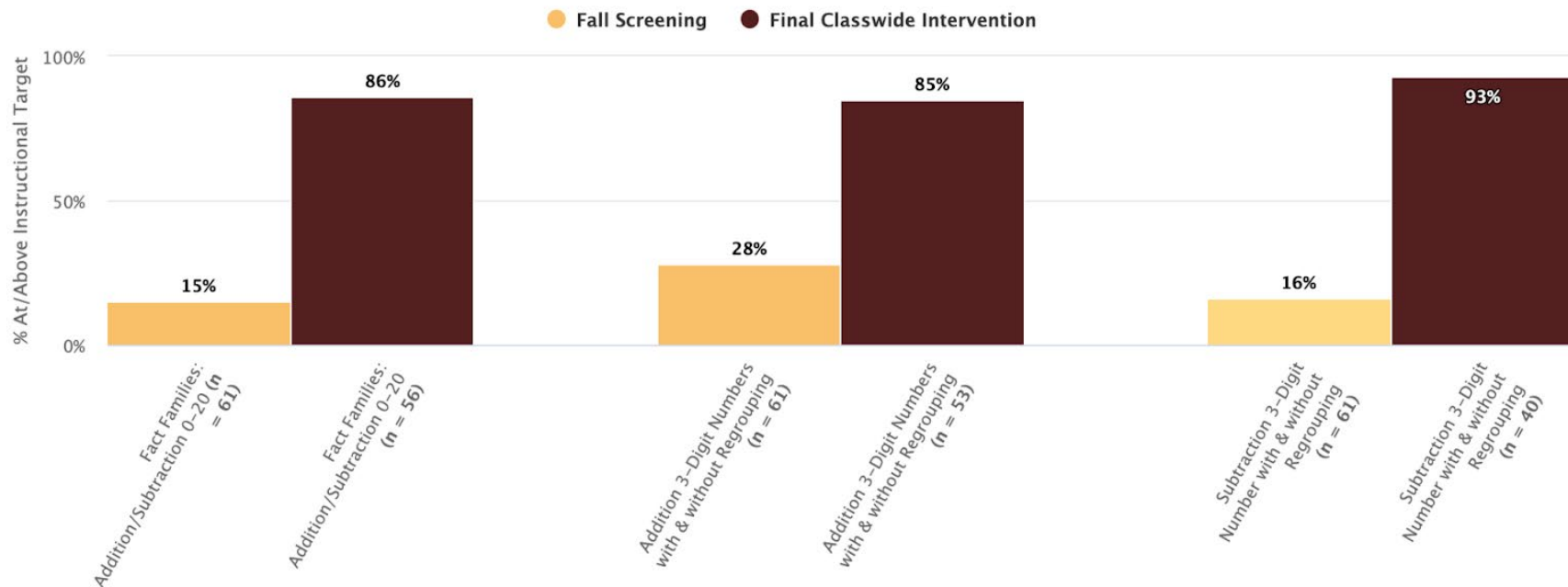
## Fall To Winter



# 3rd grade

## Fall To Winter

### Seasonal Growth

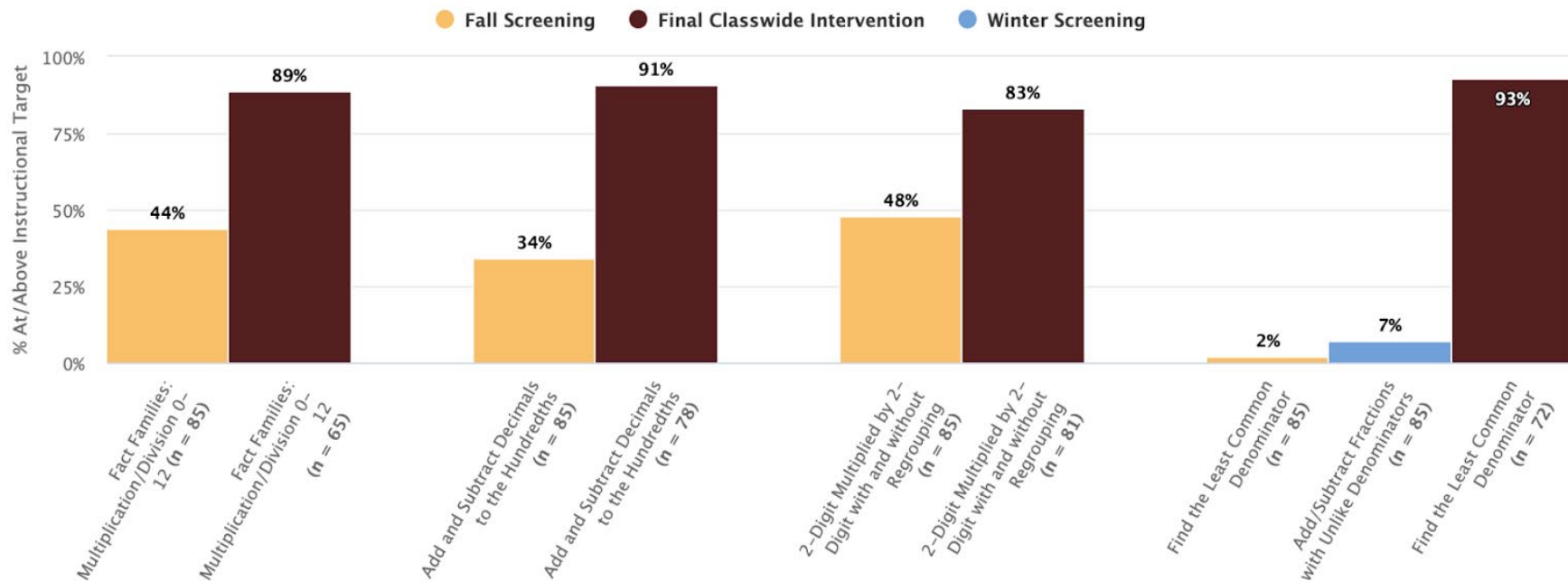




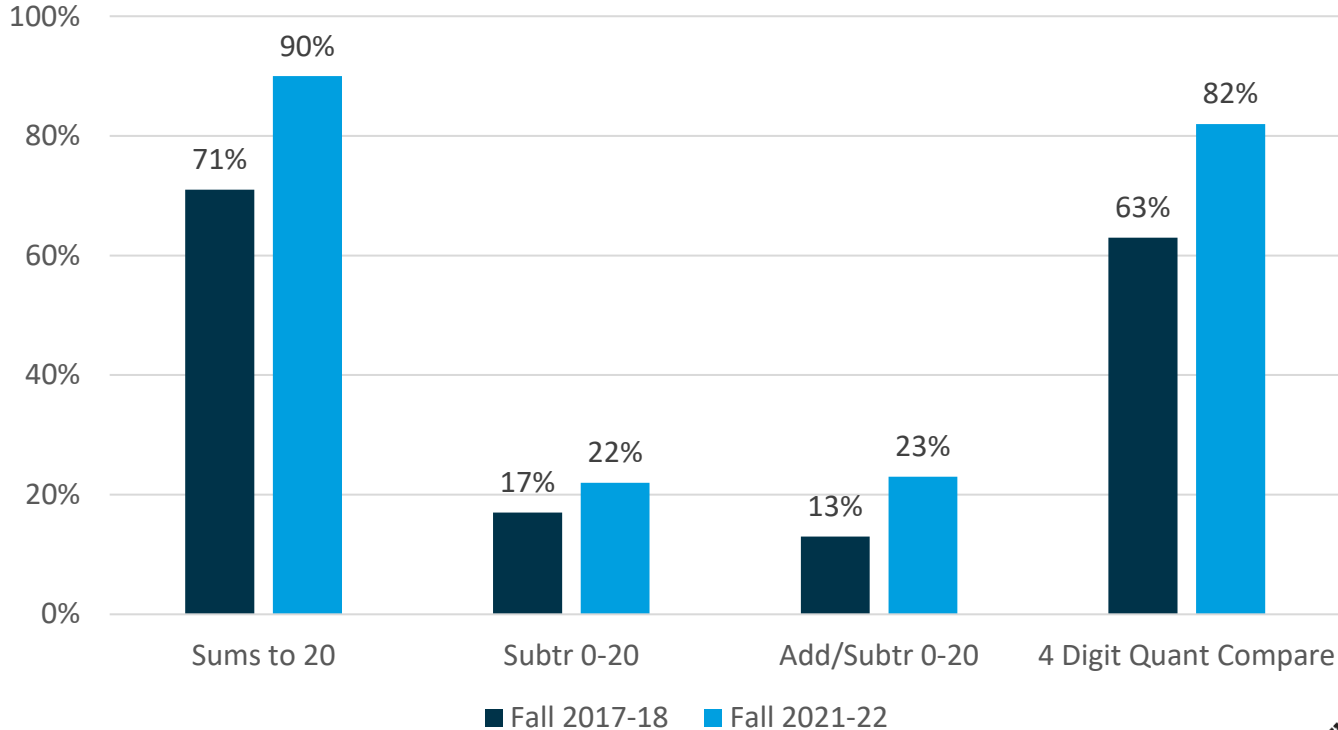
# 5th grade

## Fall To Winter

### Seasonal Growth

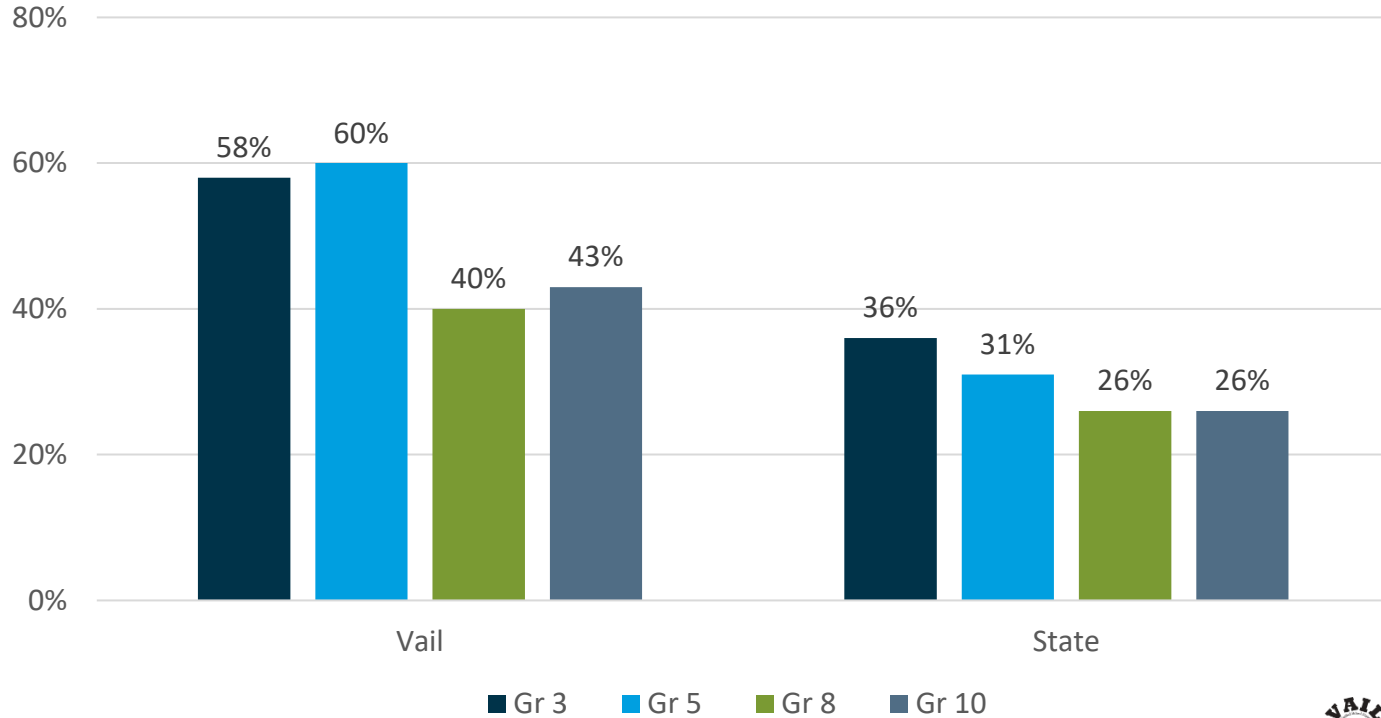


# SpringMath Growth



# 2021 AzM2 Math (State test)

2020-21



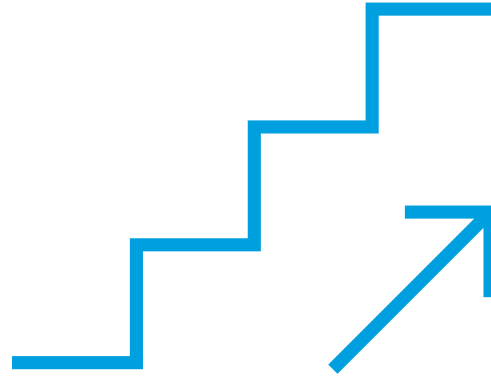


What's next?



# What are Vail's next steps as a result

- Continued focus on fluency
- Increased focus on students in frustrational range



# For more information



## Meet Holly Nicholls

Interested in learning more about Spring Math? I'm here to help.

National Client Solutions Manager

651-999-6033

[l.ead.me/hollyn](https://l.ead.me/hollyn)



# Thank you!



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# COVID impact on rural schools

Please join superintendents Andrea Guerrero from Waverly, IL and Tim Mitchell from Riverside, IA for a discussion of the impact the pandemic has had on rural and small schools. The conversation will be moderated by Kip Hines from AASA's government cooperative procurement partner, Sourcewell.

*Join us for this event!*

Wednesday, March 23, 2022

3:00 p.m. – 4:00 p.m. EST

