Curriculum Update

Mrs. Heather Buske and Dr. Heidi Weeks

Bridges in Mathematics and Stemscopes (K-5)

CMP3, Algebra, Geometry and IQWST (6-8)

STEMscopes™
THE LEADER IN STEM EDUCATION

BRIDGES IN MATHEMATICS

Activate Learning

IQWST®

Overview

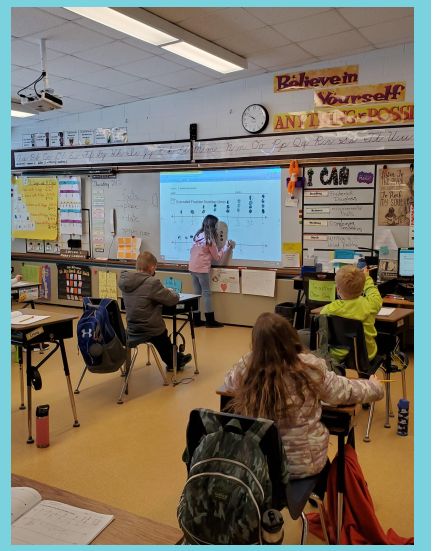
1. Discuss why we choose each program.

2. What do our students and teachers think?

3. What does the data say?

Bridges in Mathematics

What is Bridges?



-inquiry-based and hands on

- rigorous, coherent, and aligned

-engaging and accessible to all learners

-encourages deep conceptual understanding and problem solving

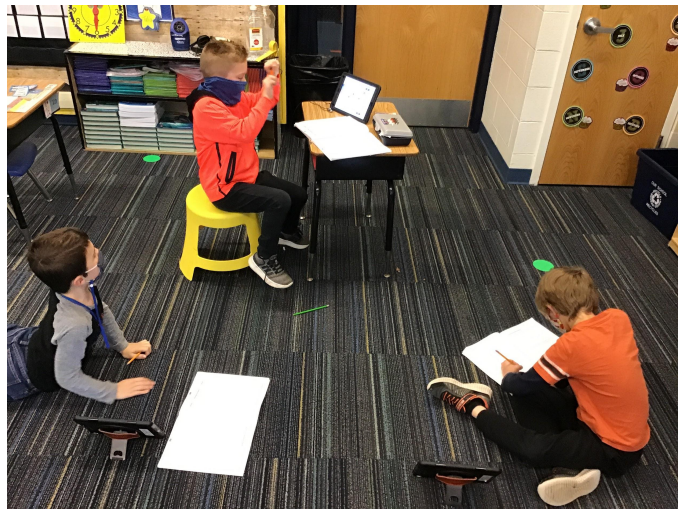
Why did we choose Bridges?

- meets the needs of all learners

-student engagement

-student-led discoveries

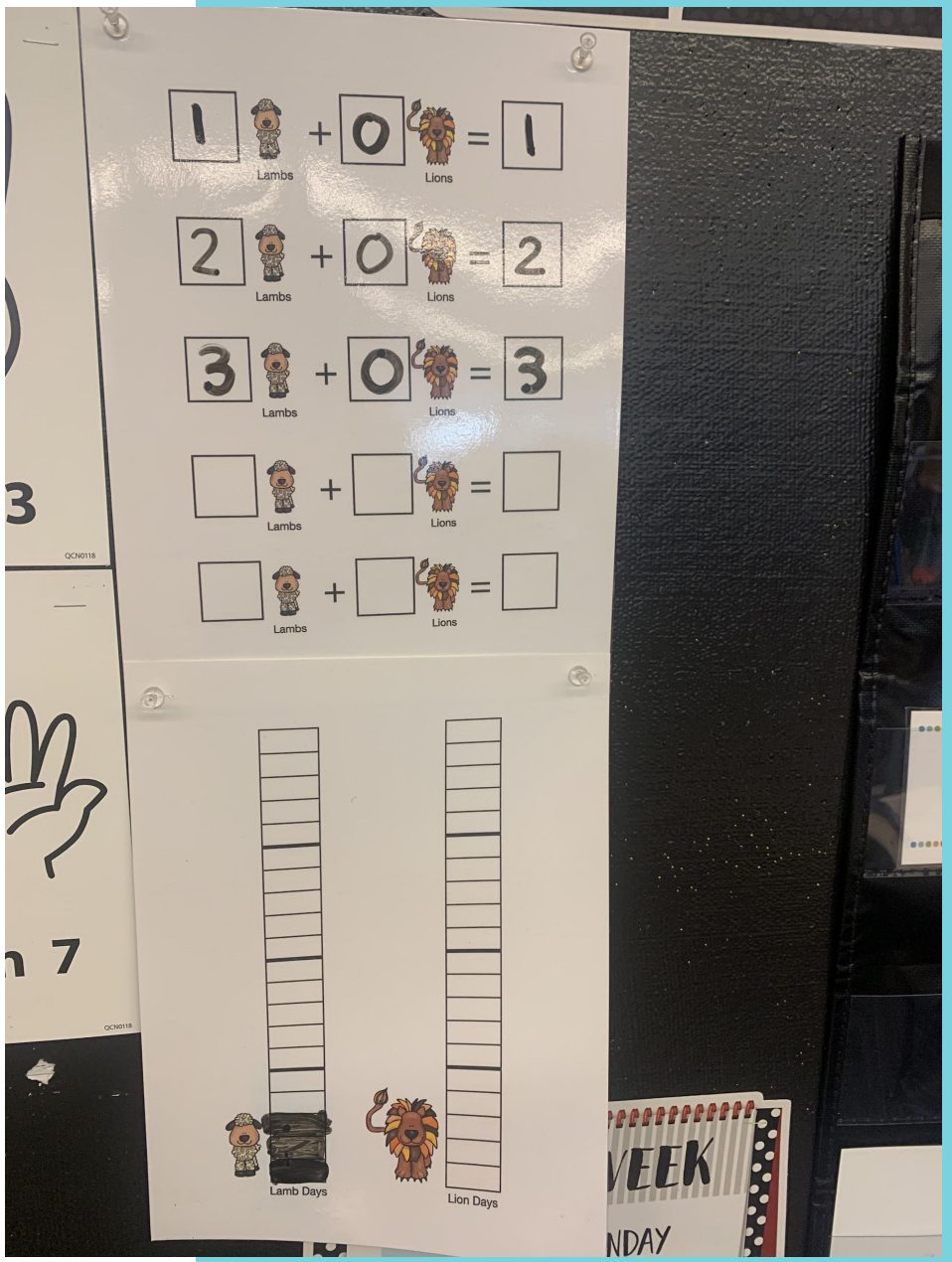
-matches our District 10 mission



Here is what our students are saying about Bridges.

I like learning how I could use 10 in different ways to add and subtract. It makes it so much easier.

-John P- 1st grader



The kindergarteners have loved checking to see if we have "lamb" or “lion" weather in Number Corner. We are making lots of connections to what we learned about weather in Science earlier in the school year!

What do our teachers think about Bridges?

Debbie Larsen- 3rd Grade Teacher

Bridges is a wonderful math program that involves a lot of hands-on activities. The workplaces that go with each unit are engaging to the students and provide an opportunity for students to practice the skills they have learned. Since using Bridges I have seen a difference in my students. They TALK about math. They debate the correct answers and wrong answers with each other and are able to provide reasons for their thinking.

Anita DeValk- 2nd Grade Teacher

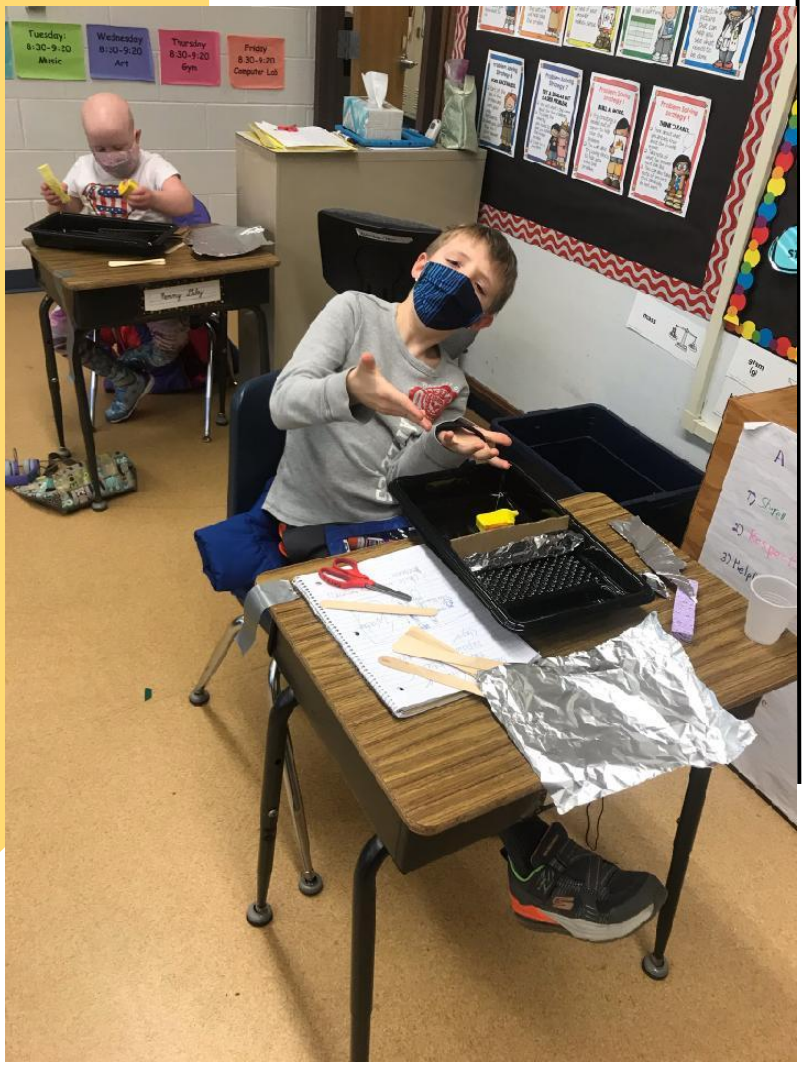
I really love all the fun games that Bridges incorporates into the curriculum! The students love playing them and I love that they are demonstrating what they know! The math tool apps are invaluable! They are so helpful, especially at the primary level where visuals are so important.

Michelle Grubbs- 5th Grade Teacher

Bridges introduces students to a variety of strategies to reach the needs of all students. As a teacher, it has helped re-spark my love of math by presenting information in new ways. Not only have my students improved their number sense from using this program, but I have as well!

Stemscopes

- Hands-on which allows students to “DO” science rather than just read about it
- Real world applications and problem solving
- Content is taught through the experiments or projects
- 4 different areas of instruction: Engage, Explore, Explain, and Evaluate



Here is what our students are saying about Stemscopes.

“We like the Stemscopes movies and going on Google Earth to see what we’ve learned about.” -2nd Graders

Here is what our teachers are saying about Stemscopes.

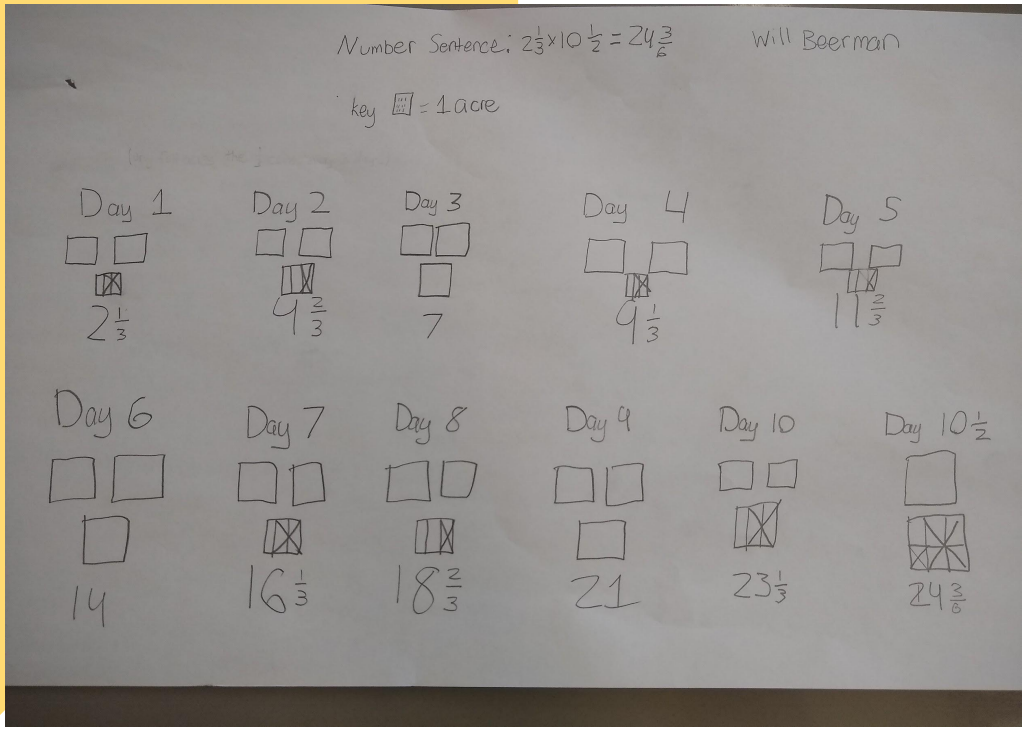
"The activities are fun and engaging. They go very in-depth about the different concepts for each unit." Matt Zarth 4th Grade Teacher

"The kids love that we are not just sitting and reading a textbook. They love that they can actually do activities and that there are hands on activities." April Hansen 3rd Grade Teacher

"My favorite parts of Stemscopes are the hands-on activities and experiments, even though we couldn't do as many this year." Sandi Schingoethe 2nd Grade Teacher

CMP3, Algebra & Geometry

- The Connected Mathematics Project 3 bases all their lessons on real-world scenarios with real applications.
- CMP3 is not memorizing. It teaches more than just the information or the “what”. It teaches the who, where, why, when, and how.
- Students have liked working together and problem solving a real life situation together.
- We were able to learn from each other different strategies to solve a problem.
- Lake Park H.S. aligned for our accelerated learners.



Here is what our students are saying about CMP3, Algebra, and Geometry.

IQWST

What is IQWST?

- IQWST Curriculum is inquiry based learning at its core.
- Students are asked to investigate phenomena, research and report findings, and apply their knowledge to new situations.
- It deals with real world problems so students can immediately see the connections to what they are learning.

Why did we choose IQWST?

- NGSS look at science and engineering practices, cross-cutting concepts and disciplinary core ideas to truly help students reach depth of understanding
- New research has shed light on the fact that while, content is important, without a solid foundation in the science and engineering practices.

What do the students think about IQWST?

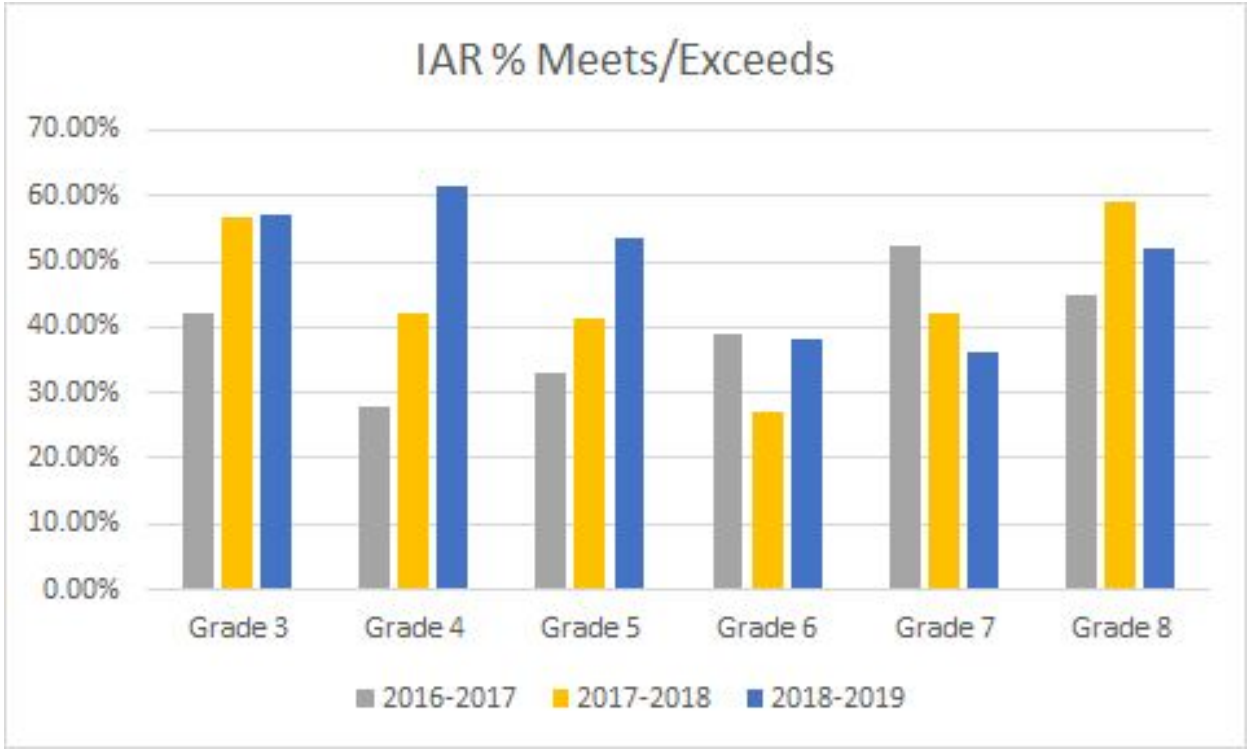
What do the teachers at Peacock think?

The CMP curriculum has proven to be challenging, but has motivated math students to become deeper thinkers. I have more students asking the why of a concept instead of always wanting just an answer. I think we have given our students a chance to excel in the area of mathematics. I believe with the new support of the Bridges curriculum, we are beginning to see more successes in the area of math in the middle school.
Katie Sard 7th Grade Math Teacher

Since we implemented IQWST, IQWST has improved their website and have offered additional options to teachers to support student learning. This has improved with the addition of video's demonstrating the labs that can be used with students. They have also provided slides that can be used with lessons that can direct student conversations.
April Durkin- 7th Grade Science Teacher

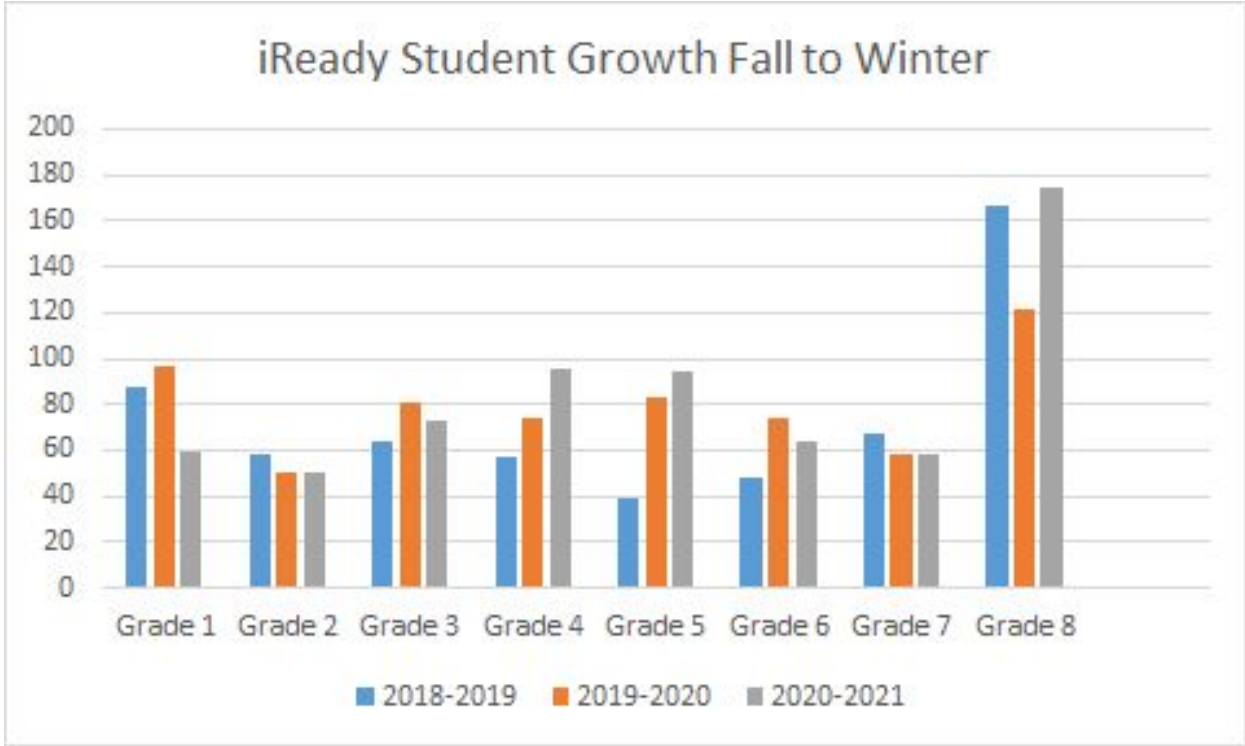
Math Data K-8 (IAR)

- % of Students who have met or exceeded expectations on the PARCC/IAR State Assessments
- Majority of consistent improvement in grades over time
- New Curriculum implementation in 2017 & 2019



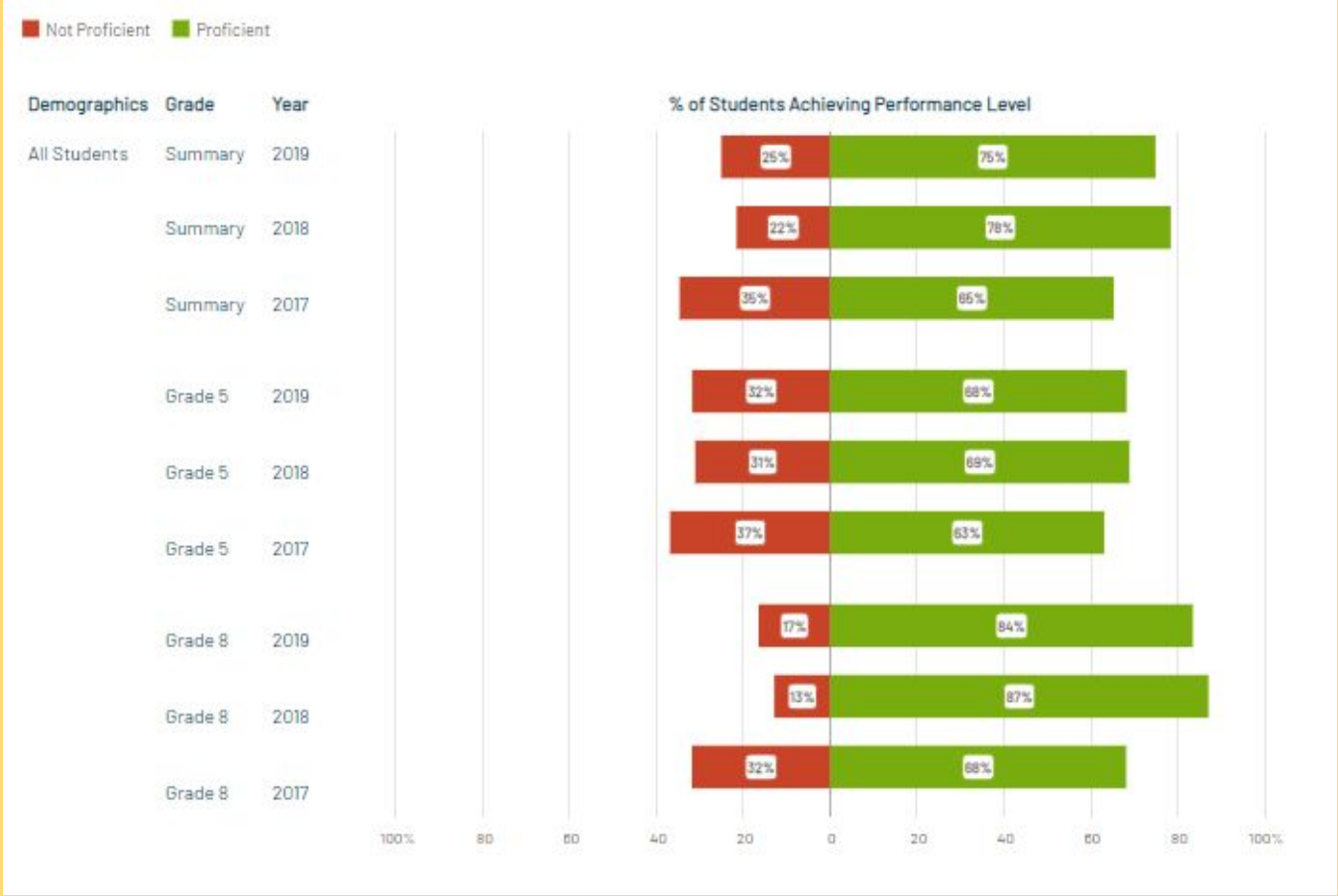
Math Data K-8 (iReady)

- Majority of grades with consistent growth trends
- Accelerated courses and growth
- New Curriculum implementation in 2017 & 2019
- Exiting Students to LPHS



Science Data K-8

- Administered to Grades 5 & 8 assessment every spring
- Consistent Growth over the last 3 years
- Consistently well above state averages



Thank you!

What questions do you have?