

Syosset Central School District

Student Achievement Data Presentation

**Board of Education Meeting
September 11, 2023**

Major Curriculum Shifts Since 2015

➤ Laying the Foundation

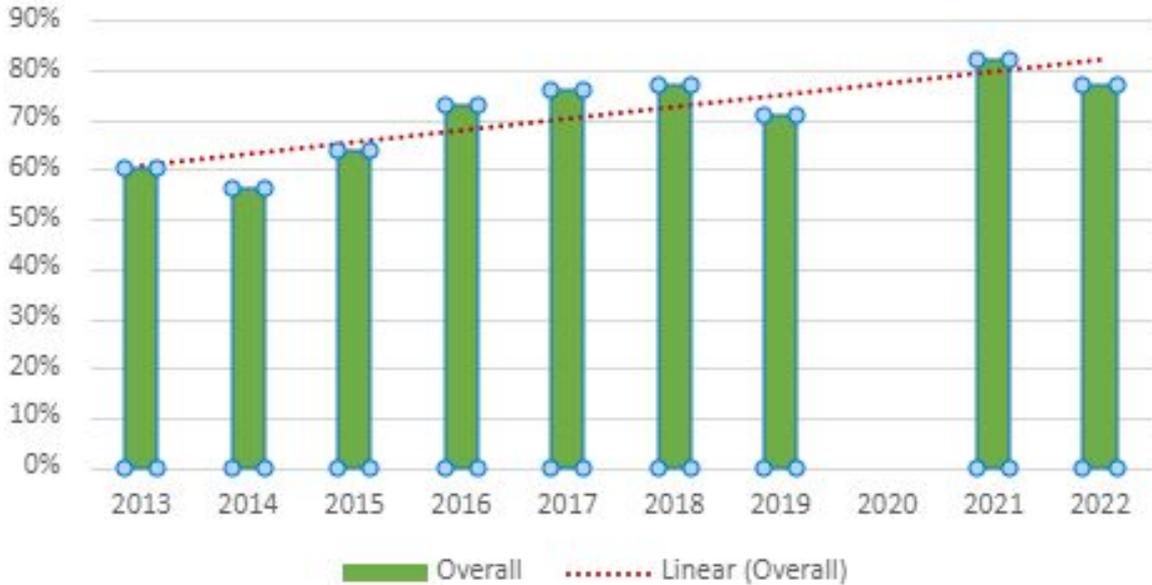
- ELA – Syosset invested in new materials, classroom libraries, and professional development through Reader's and Writer's Workshop.
- Math – Adoption of Go Math at elementary and middle school.
- Science – Shift to inquiry-based science and hands-on labs.
- MTSS – Built program to support students' academic needs which is widely referenced as a model program (Presentation planned October 2023)

➤ Building and Broadening

- Our district focused on crosscutting concepts, starting with science, and expanding across all K-12 curriculum.
- We were an early adopter of new Common Core Algebra I, II, & Geometry.
- 8 → 9 Transitions

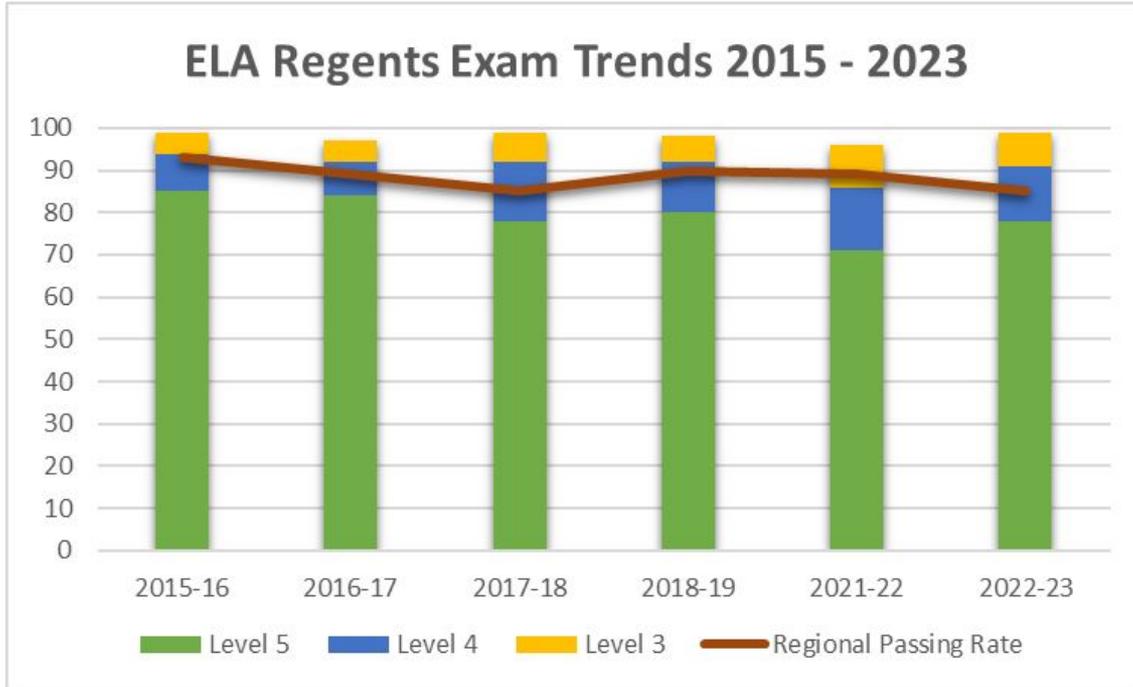
3-8 ELA Performance

Districtwide 3-8 ELA Performance



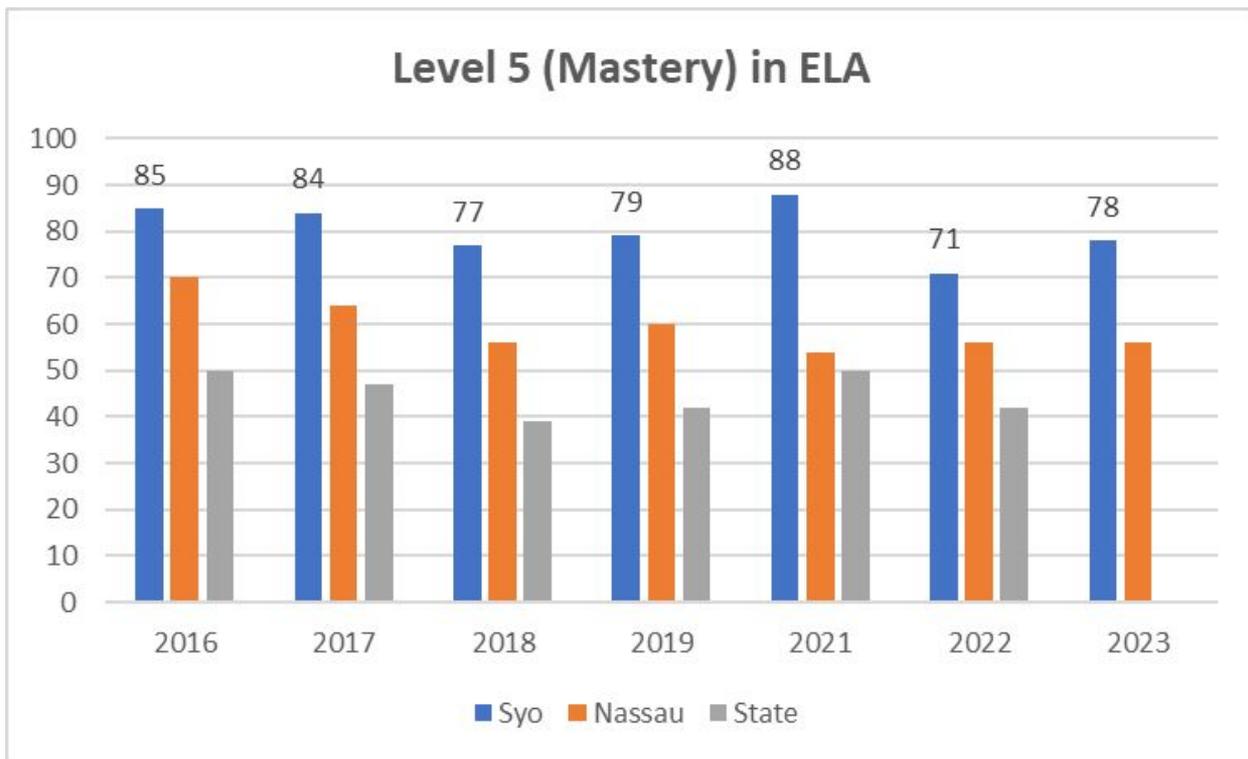
- An overall positive trend of increased proficiency
- Upward trajectory can be attributed to the implementation of the workshop model of instruction

ELA Regents Performance



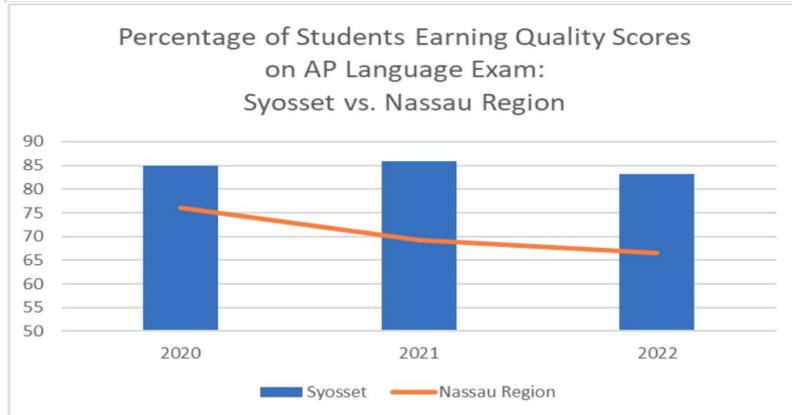
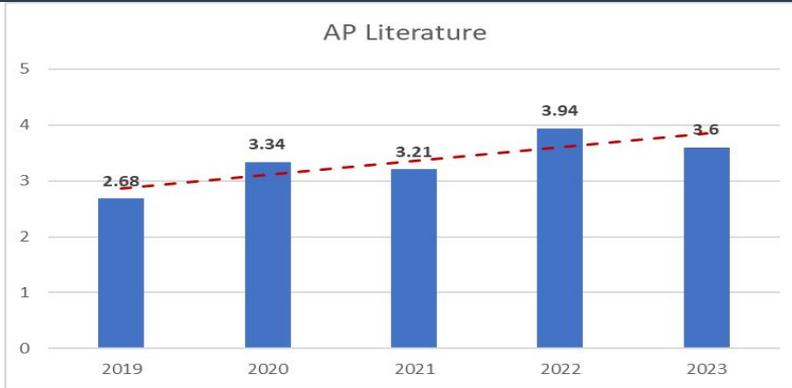
- Student performance on the ELA Regents has consistently outperformed the region in passing rate.

ELA Regents Performance



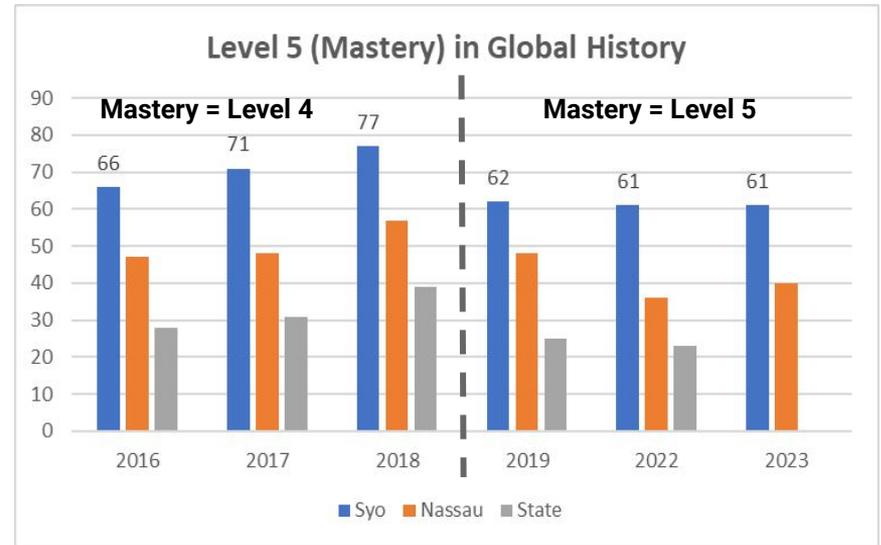
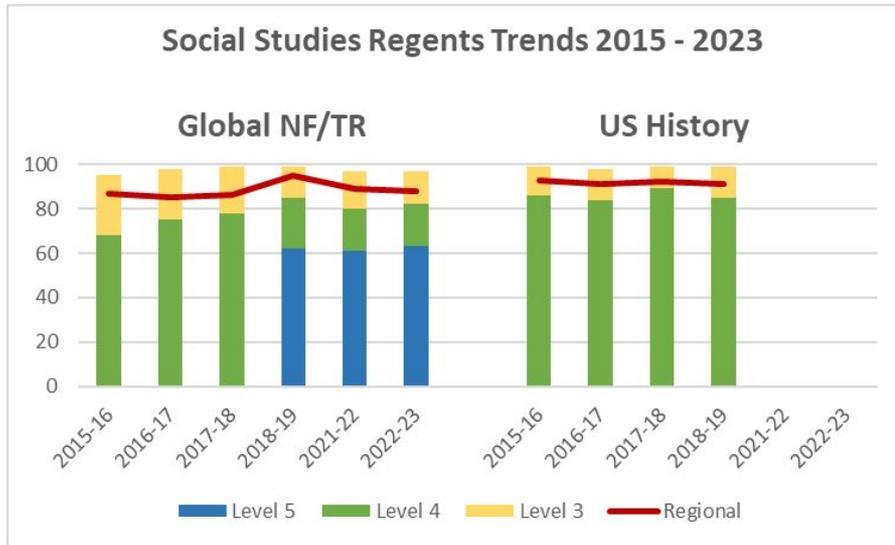
- At level 5, the highest level of performance, the gap becomes even more pronounced

Advanced Placement English Performance



- Scores and participation in Advanced Placement English courses have all increased.
- At the same time, enrollment has increased in advanced English courses.

Social Studies Regents Performance



ELA: Instructional Analysis

What worked?

- Coherent, districtwide approach
- Workshop model of instruction
- Richer and more diverse classroom libraries
- Ongoing professional development for teachers
- Incorporation of strategic phonics instruction at the primary level
- Targeted interventions focused on specific student need (MTSS)

What's next?

- UPK emphasis on strengthening literacy instruction
- K-2 new units of study for reading
- Expanded emphasis on phonics for all readers (Tier 1) and for struggling readers (Tier 2)
- Ongoing exploration of student interventions to meet student needs
- Increased participation in advanced English courses

Mathematics: Foundation and Strategies

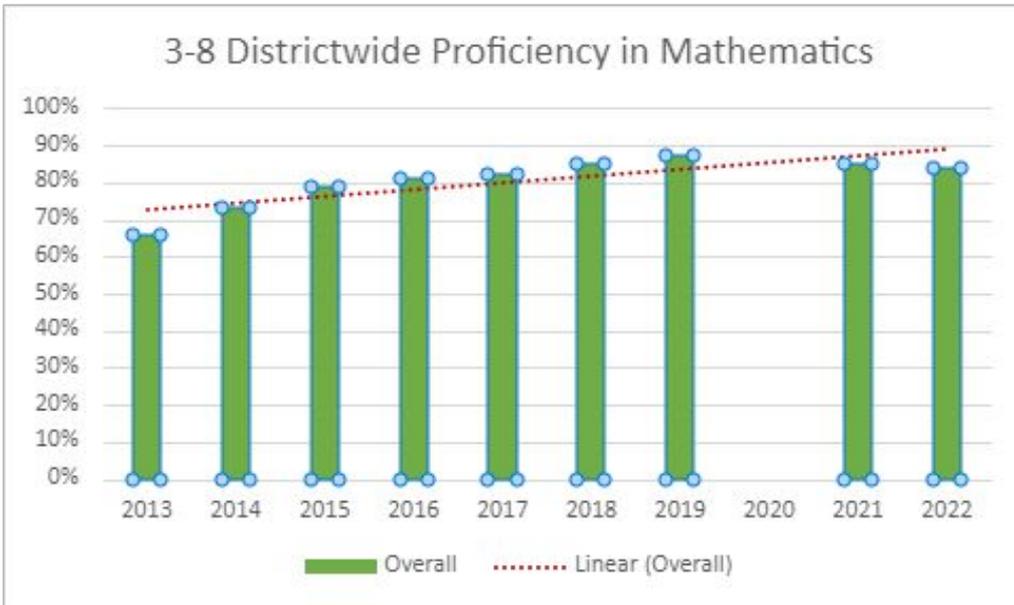
Go Math shifted content focus:

- from - “operational math” (formulaic approach)
- to - “conceptual math” (a deeper understanding of principles).

Instructional Approach

- Workshop model - mini-lessons reinforced with immediate practice
- Flexible reasoning - multiple ways of solving problems
- Application - applying concepts to novel situations

3-8 Mathematics Performance



- Adopting GoMath provided necessary structure of the math curriculum.
- Empowered teachers to think beyond the workbook to create a greater impact in the classroom.
- Student performance increases over time overall.
- The same general trend is observed by cohorts.

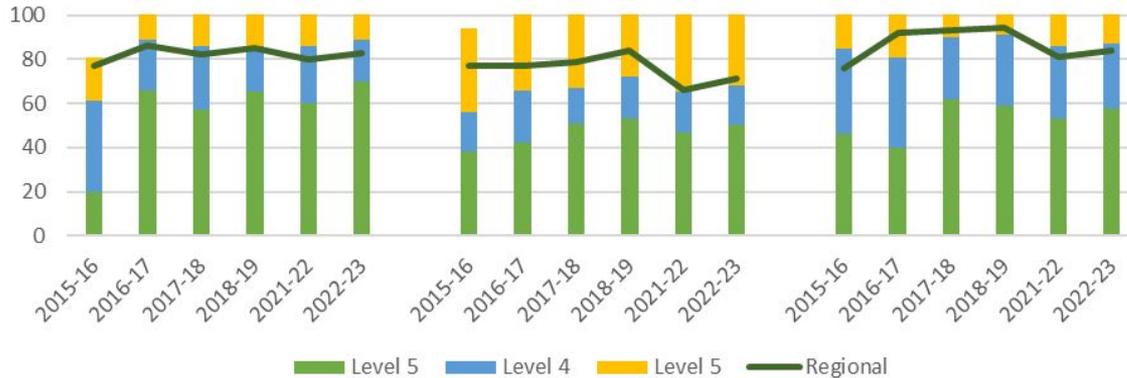
Mathematics Regents Examination Performance

Math Regents Trends 2015 - 2023

Algebra 1

Geometry

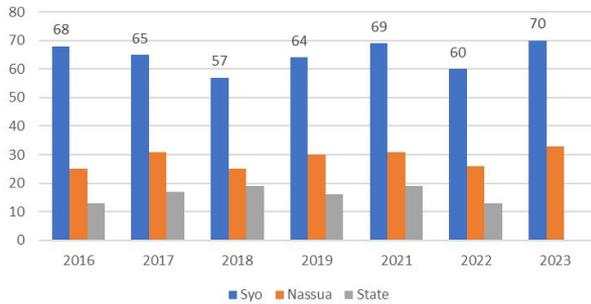
Algebra 2



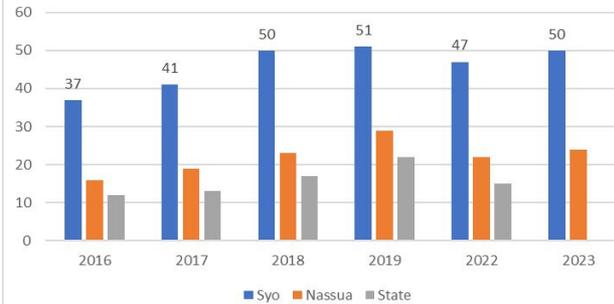
- Syosset students have continued to outperform the Nassau County averages.
- Our results post-CoVID are significantly higher than the Nassau county averages.

Mathematics Regents Mastery

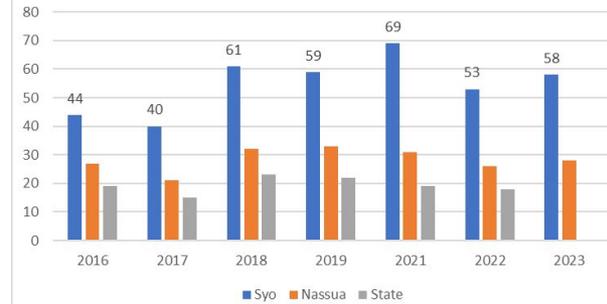
Level 5 (Mastery) in Algebra 1



Level 5 (Mastery) in Geometry



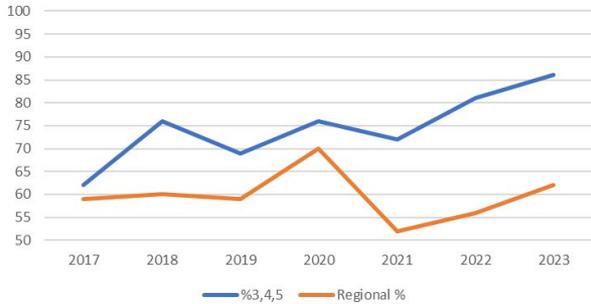
Level 5 (Mastery) in Algebra 2



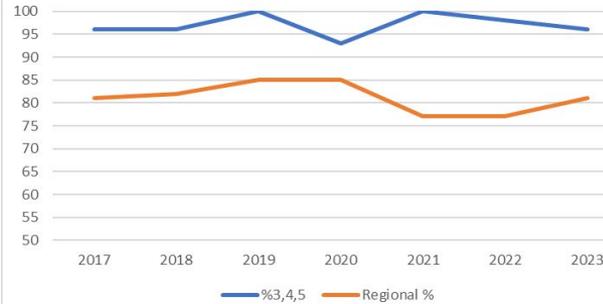
- Syosset students have continued to outperform the Nassau County averages at the mastery level as well.
- Our decision to move ahead quickly with the Common Core shifts gave us a comparative advantage.

Advanced Placement Math Performance

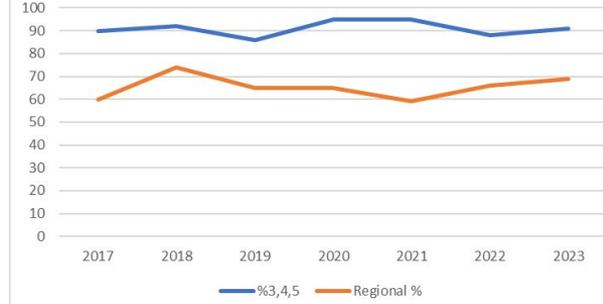
AP Calculus AB



AP Calculus BC

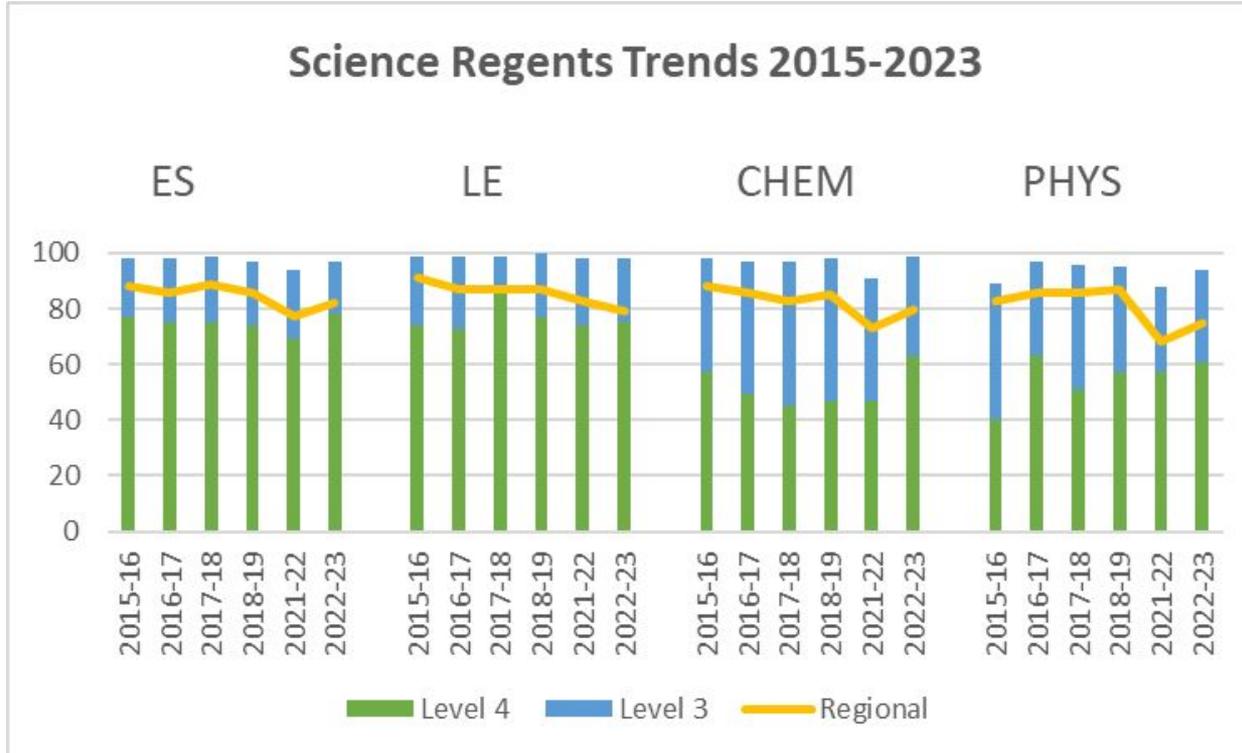


AP Statistics

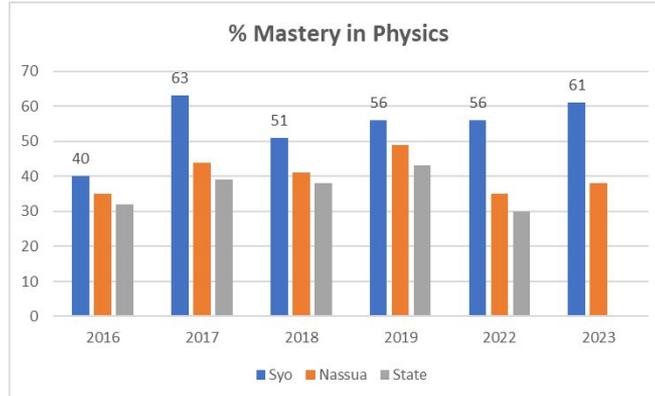
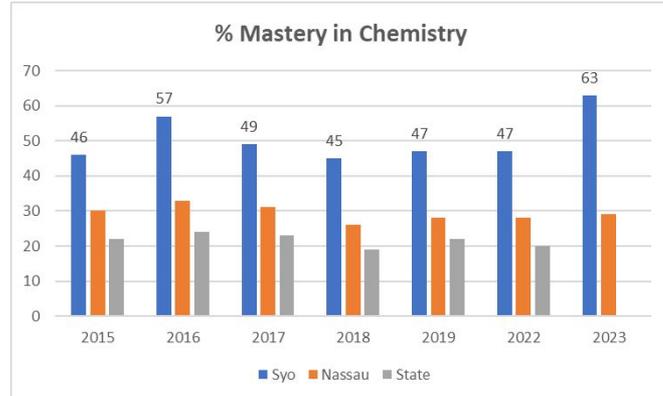
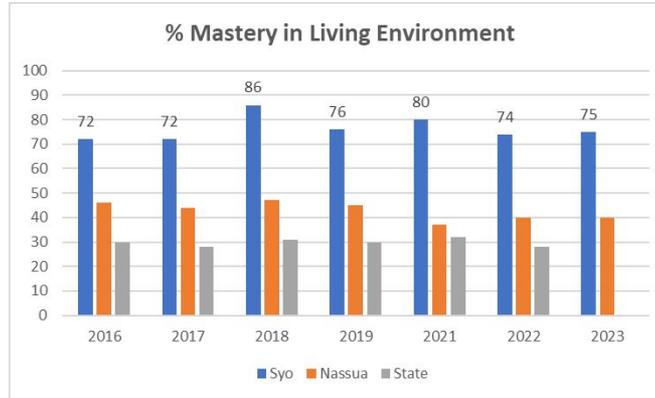
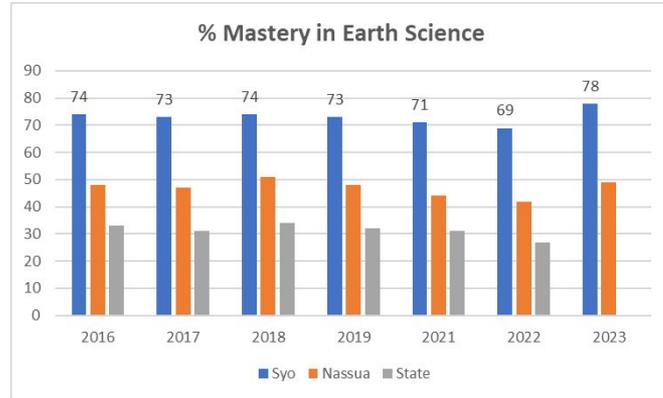


- Student AP Calculus scores have remained high through the COVID pandemic and have increased since 2020.
- AP Statistics scores have been well over the regional average.

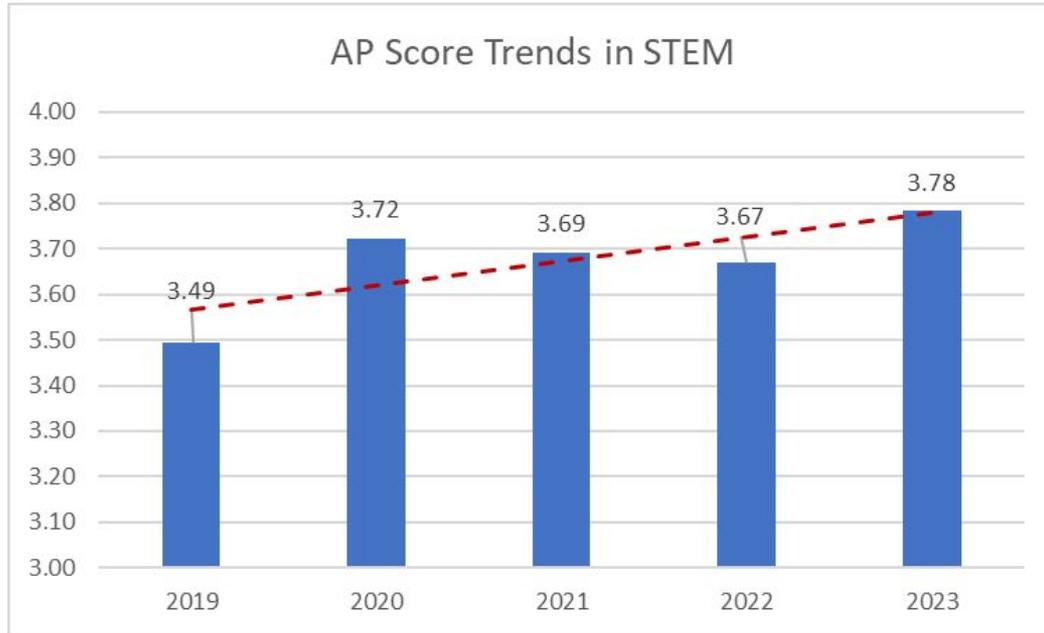
Science Regents Performance



Science Regents Mastery



Advanced Placement Performance in STEM



- Student performance in STEM-related AP classes has increased over time

STEM Disciplines: Instructional Analysis

What worked?

- Coherent, districtwide approach
- Workshop model of instruction
- Conceptual understanding provides stronger foundations
- Opportunities for flexible reasoning and collaborative approach to learning
- More opportunities for acceleration

What's next?

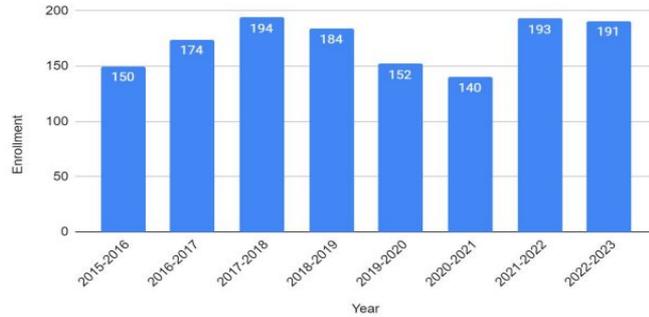
- AP PreCalculus - more students can access higher-level AP Calculus (AB and BC)
- Math 3.0 - exploration of ways to enhance our current math program
- “Next Generation” (Post-Common Core) Regents Math Classes
 - (first exam: Algebra 1, June 4, 2024)
- “Next Generation” (Post-Common Core) Regents Science Classes
 - (first exam: Earth Science, June 2025)
- College Anatomy and Physiology elective

Examining Trends Over Time

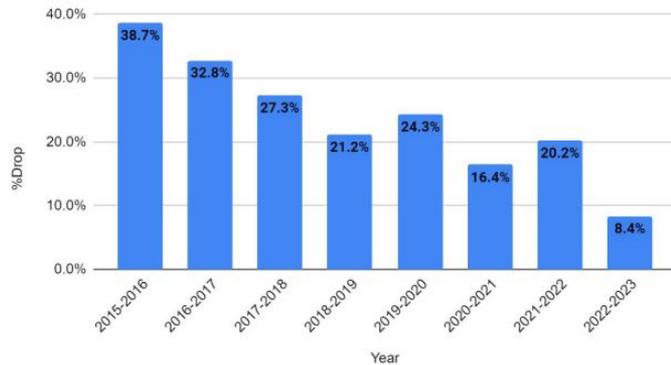
- Participation and Enrollment
- Drop Rates
- ENL student progress toward proficiency

8 - 9 Transition Data

Geometry Honors Enrollment

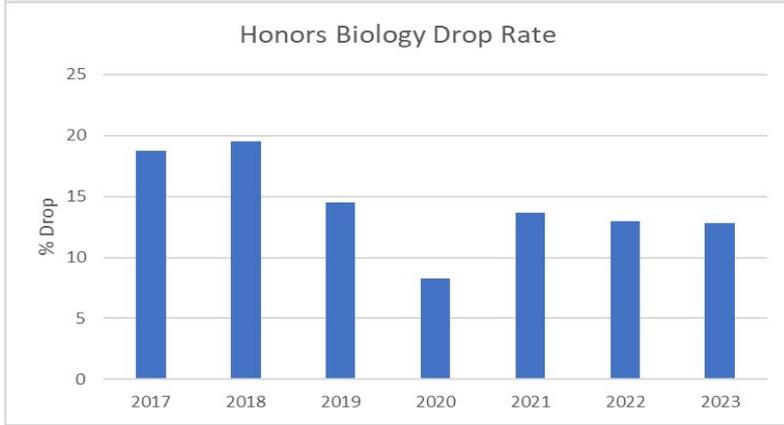
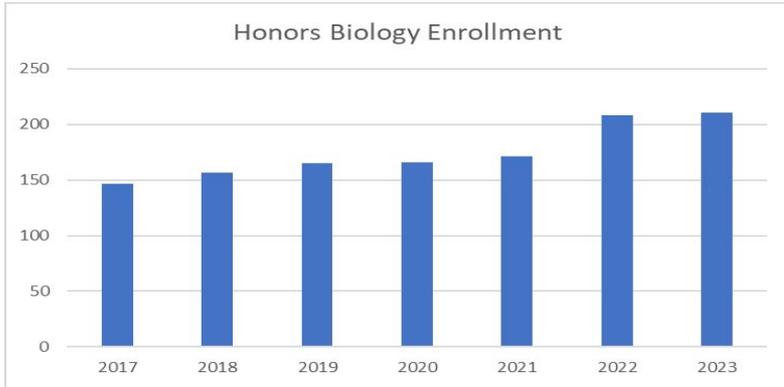


Geometry Honors Drop Rate



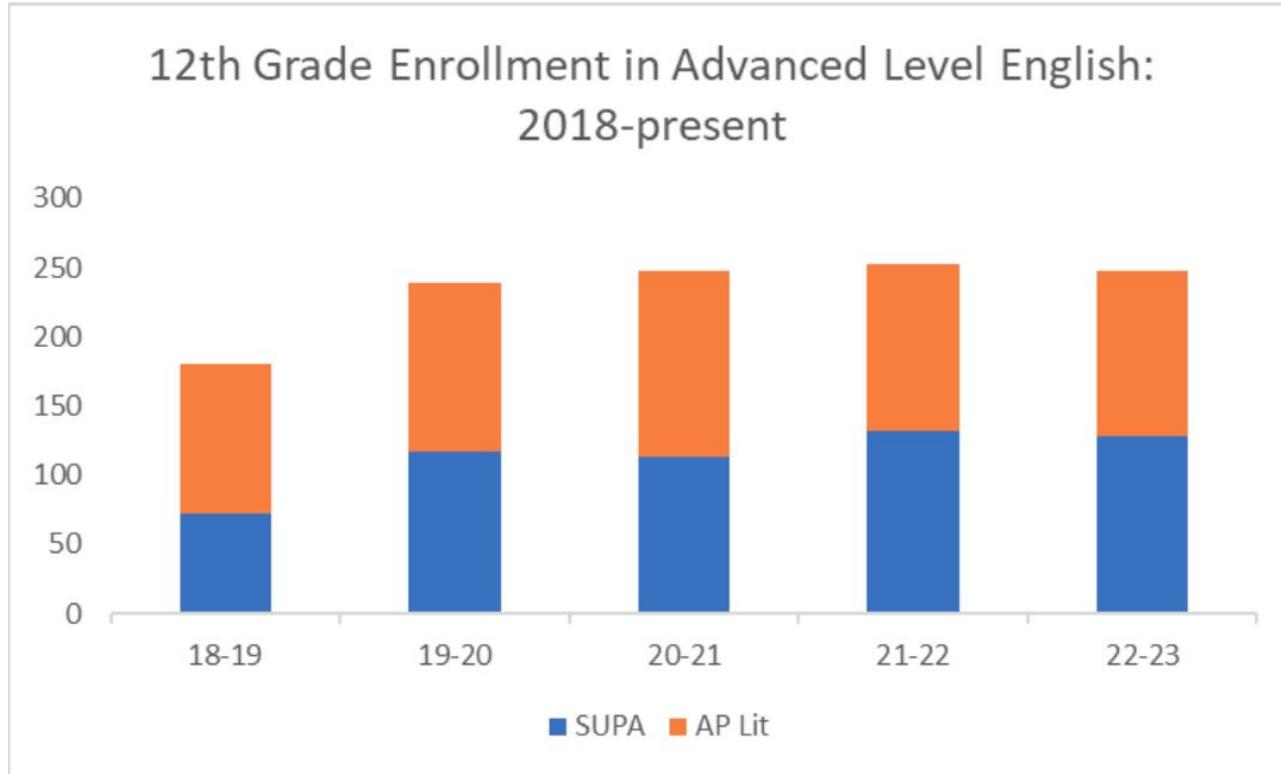
- Participation in Geometry has generally increased while the amount of students dropping the course has decreased dramatically.

8-9 Transition Data in Science



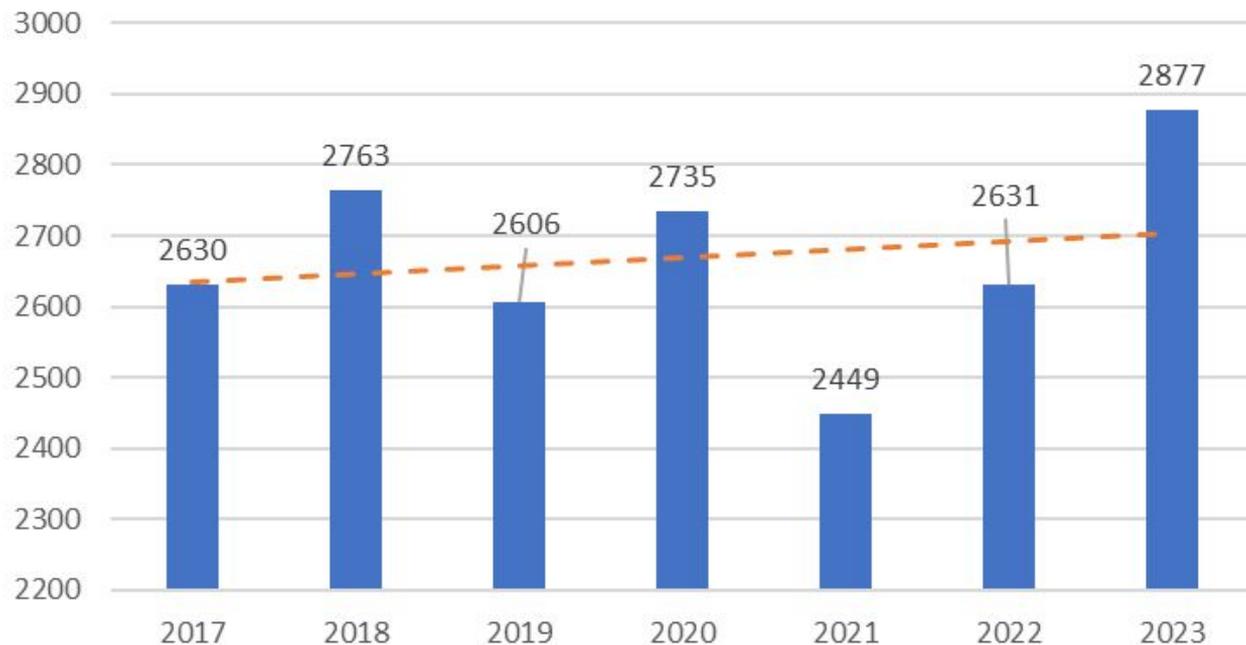
- The amount of students taking Honors Biology in 9th grade has steadily increased - the number sections has gone from 8 to 12.
- At the same time, the overall rate of students dropping has decreased.

Participation in Advanced English Courses



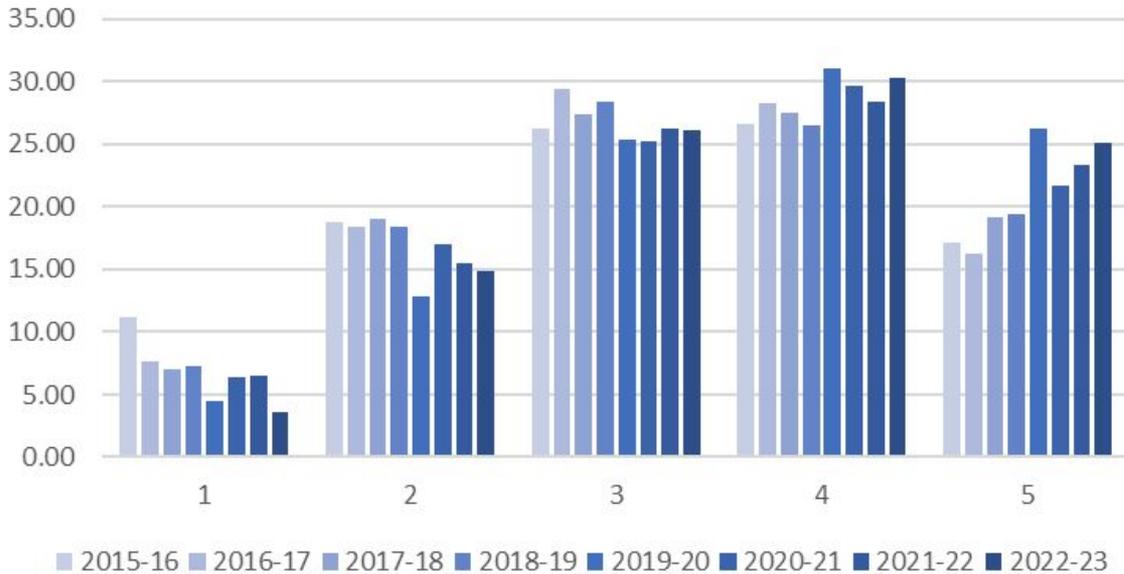
Student Participation in AP Exams

Total AP Exams Administered



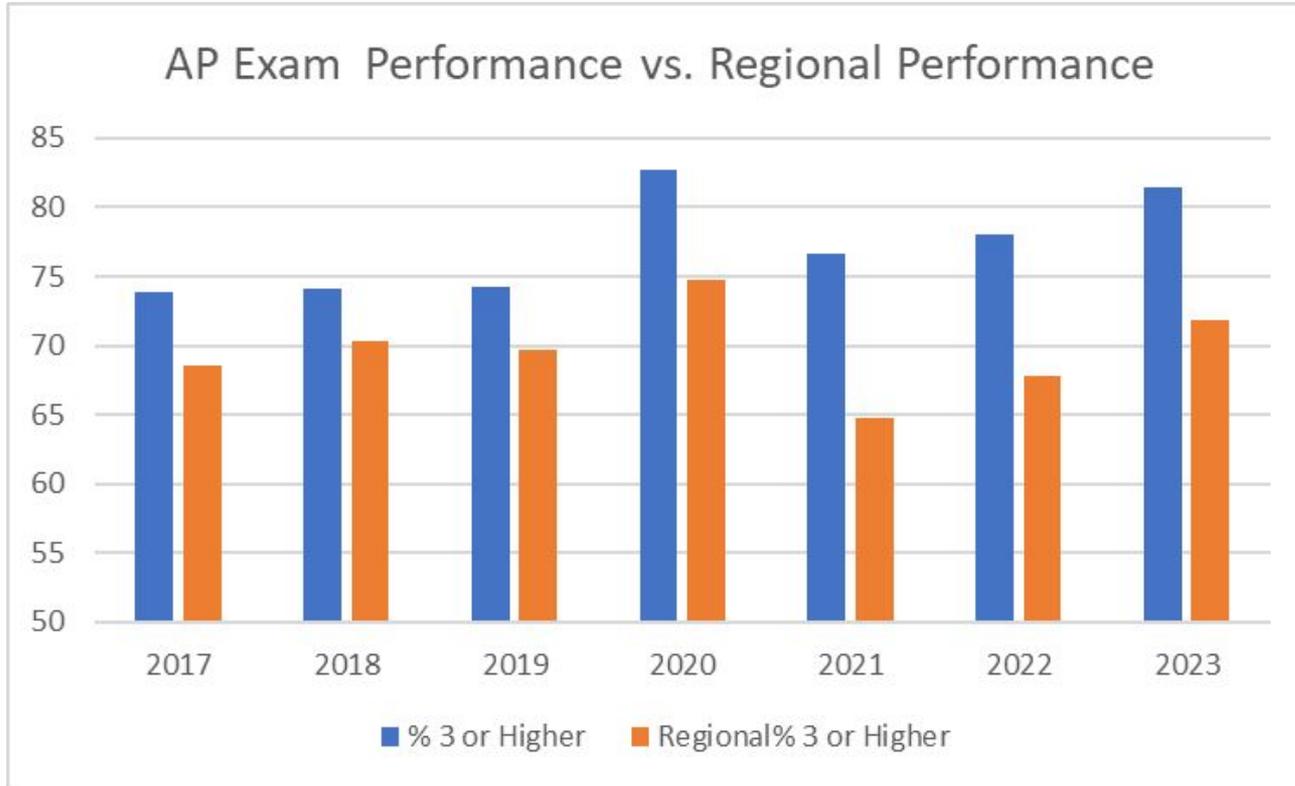
Overall AP Performance

AP Score Distribution 2015 - 2023



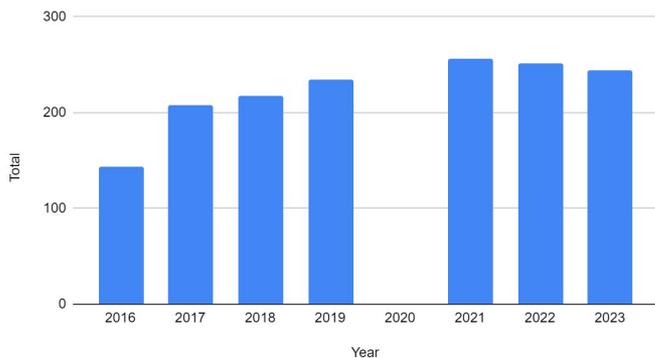
- The percentage of students who have earned 4's and 5's on AP Exams has increased since 2015.

AP Exam Performance Over Time

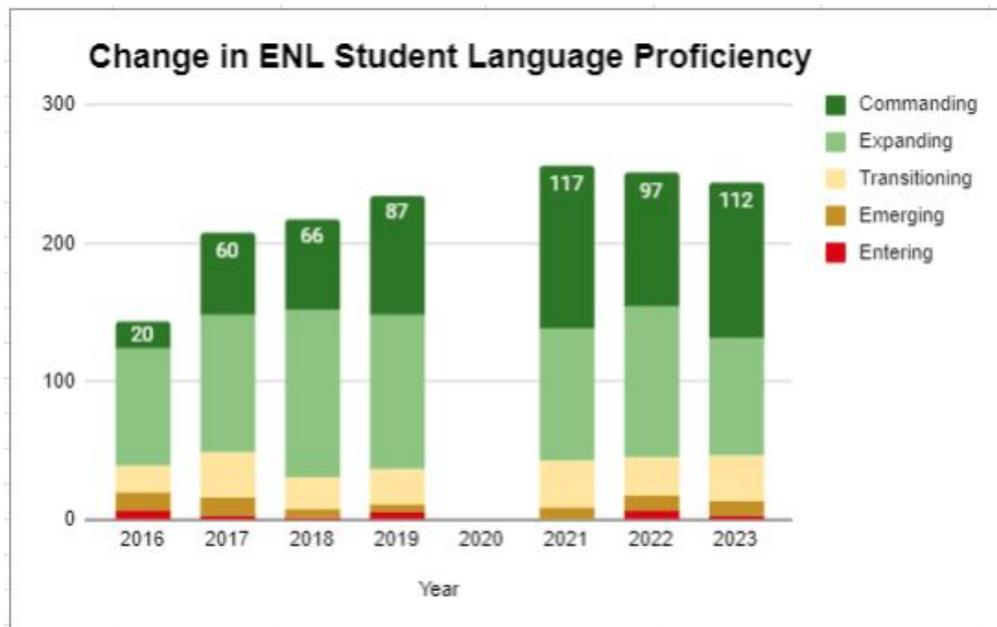


Language Proficiency Trends for ENL Students

ENL Enrollment 2016-2023



Change in ENL Student Language Proficiency



What's Next...

Next month we will highlight our MTSS system and share how we continue to support students so that they engage in rigorous material AND have their social/emotional needs met.