

5th Grade Science

Data Overview

Brumby Elementary School

Cobb County School District



Introduction and Purpose of Data Overview

- Presentation by Amy Calley, Core Extension Art Teacher
- Overview of Brumby Elementary School 5th Grade Science Data
- Presented to Brumby Elementary 5th Grade teachers, administration, and academic coach on July 16, 2019
- Purpose of presentation is to determine areas of strength and weakness as evident through trends over the past 3 years of Science data (2016-2018), in order to develop an action plan that supports improved instruction and student achievement as science supports STEM to STEAM initiatives

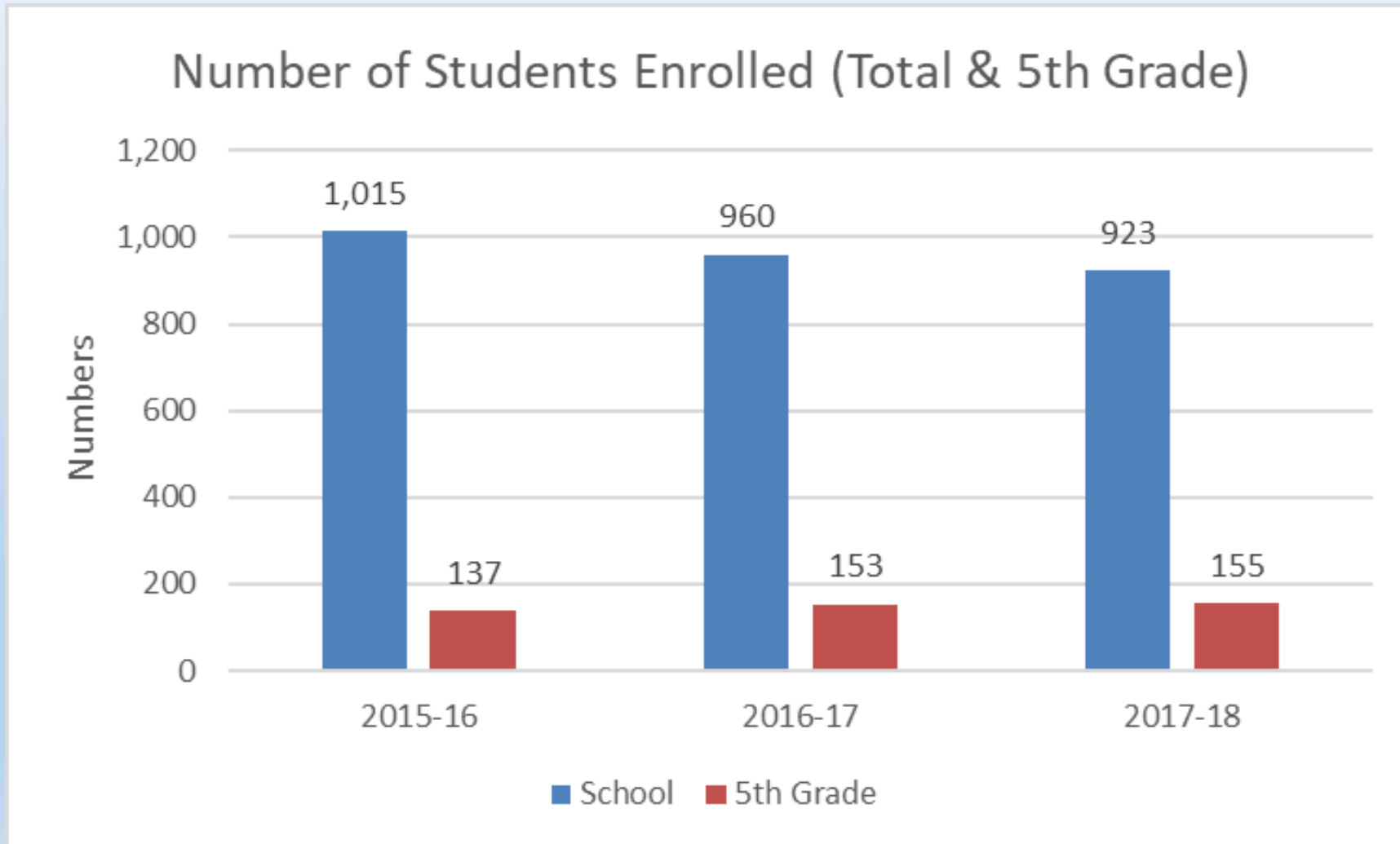


Overview of the School

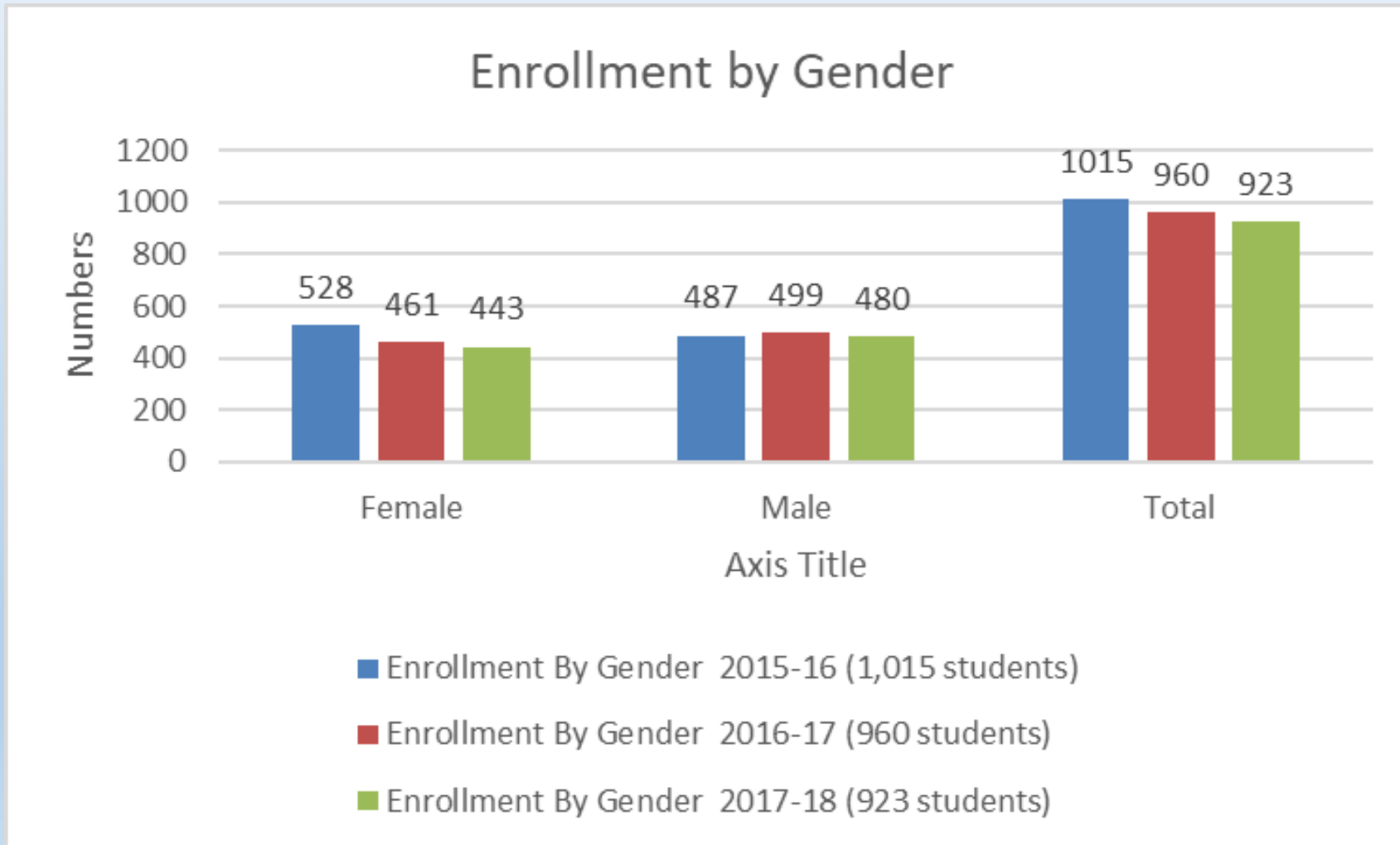
Demographic Profile of Students and Teachers



Total School Enrollment

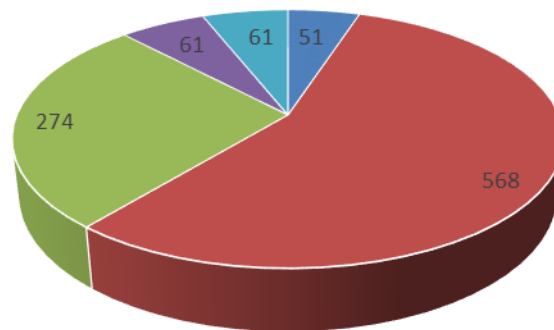


Student Enrollment by Gender



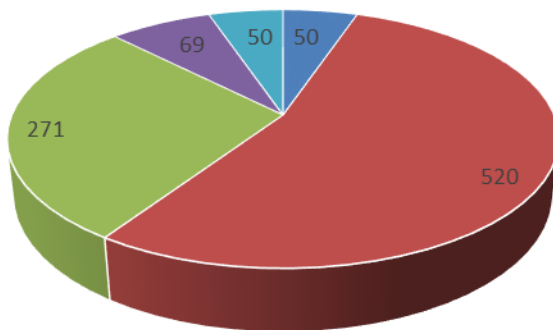
Student Enrollment by Race/Ethnicity

Student Enrollment 2015-16



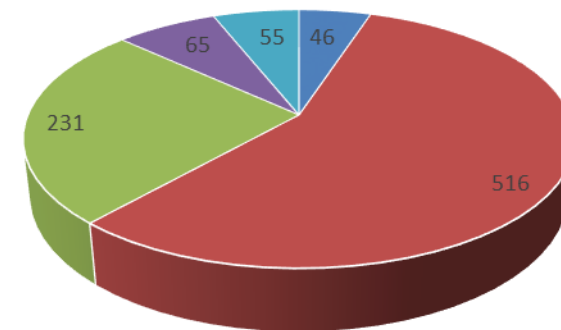
■ Asian ■ Black ■ Hispanic ■ White ■ Multiracial

Student Enrollment 2016-17



■ Asian ■ Black ■ Hispanic ■ White ■ Multiracial

Student Enrollment 2017-18

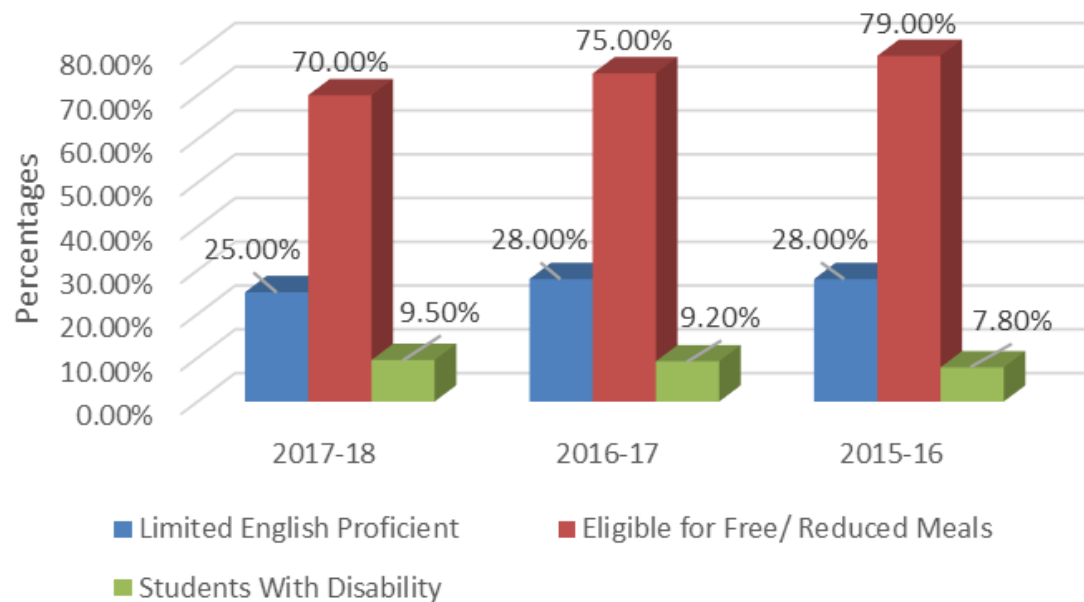


■ Asian ■ Black ■ Hispanic ■ White ■ Multiracial

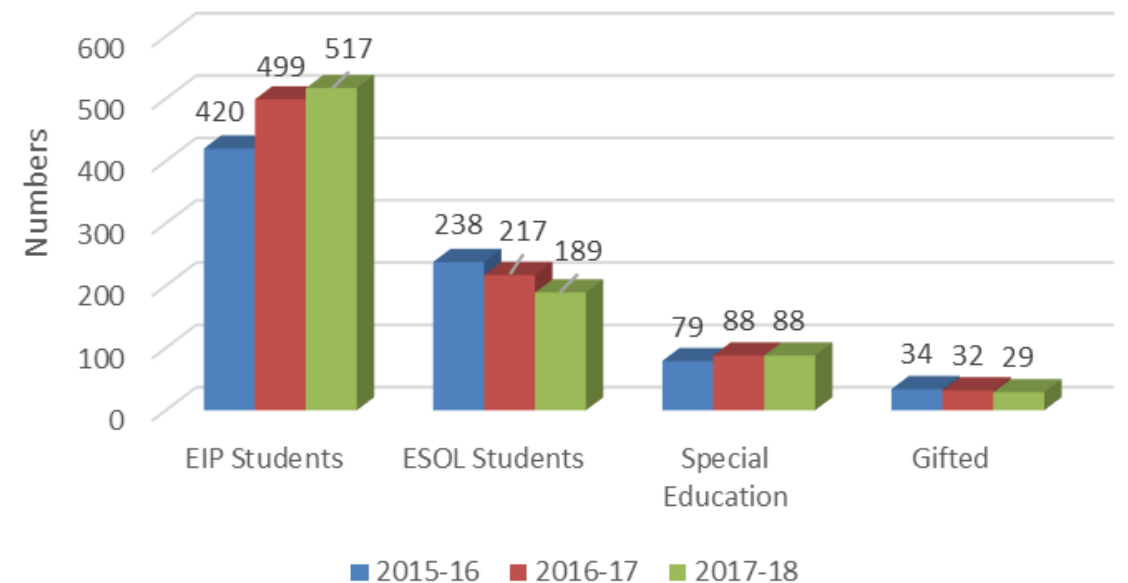


Student Enrollment by Subgroups/Programs

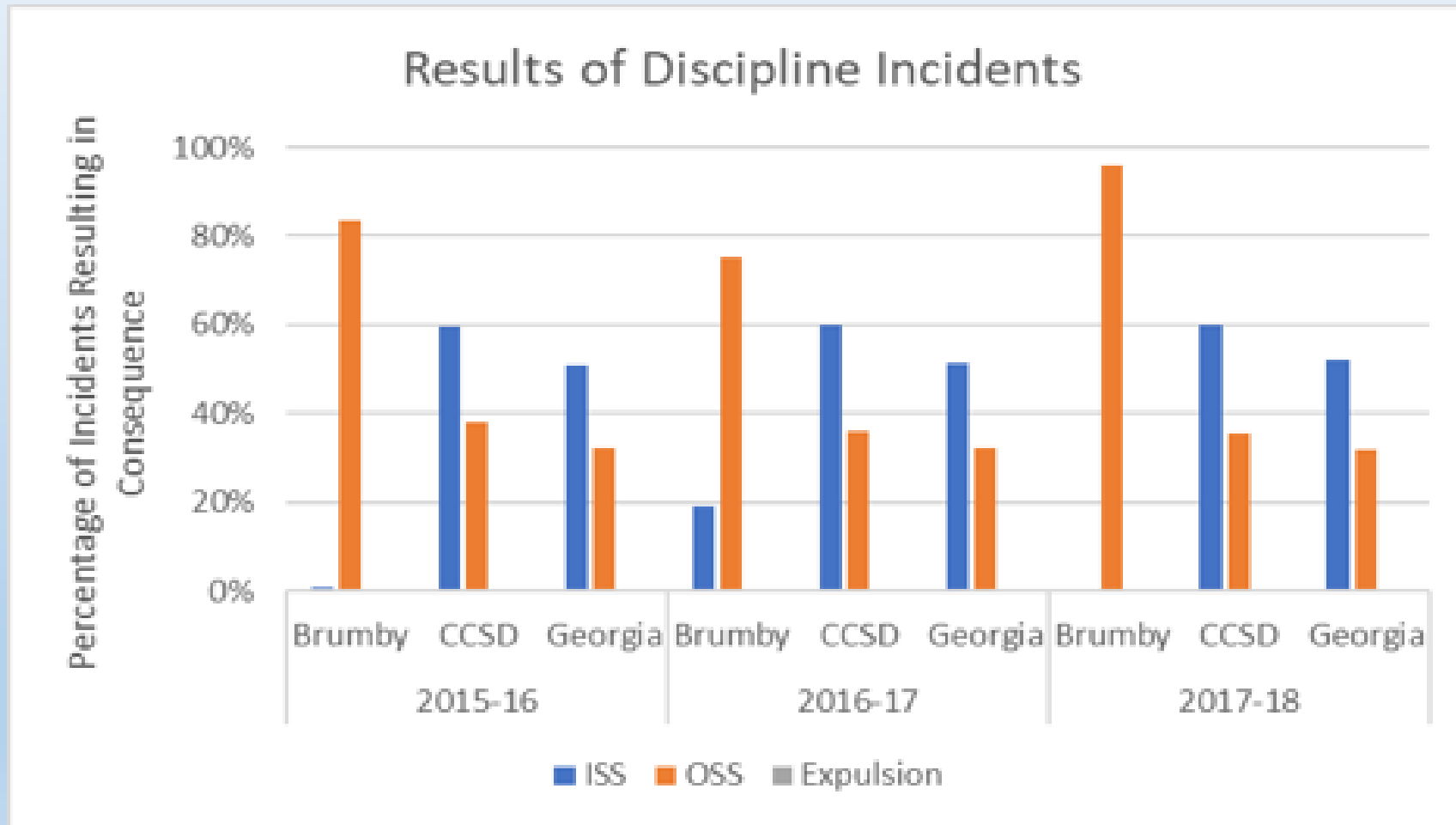
Enrollment by Subgroups



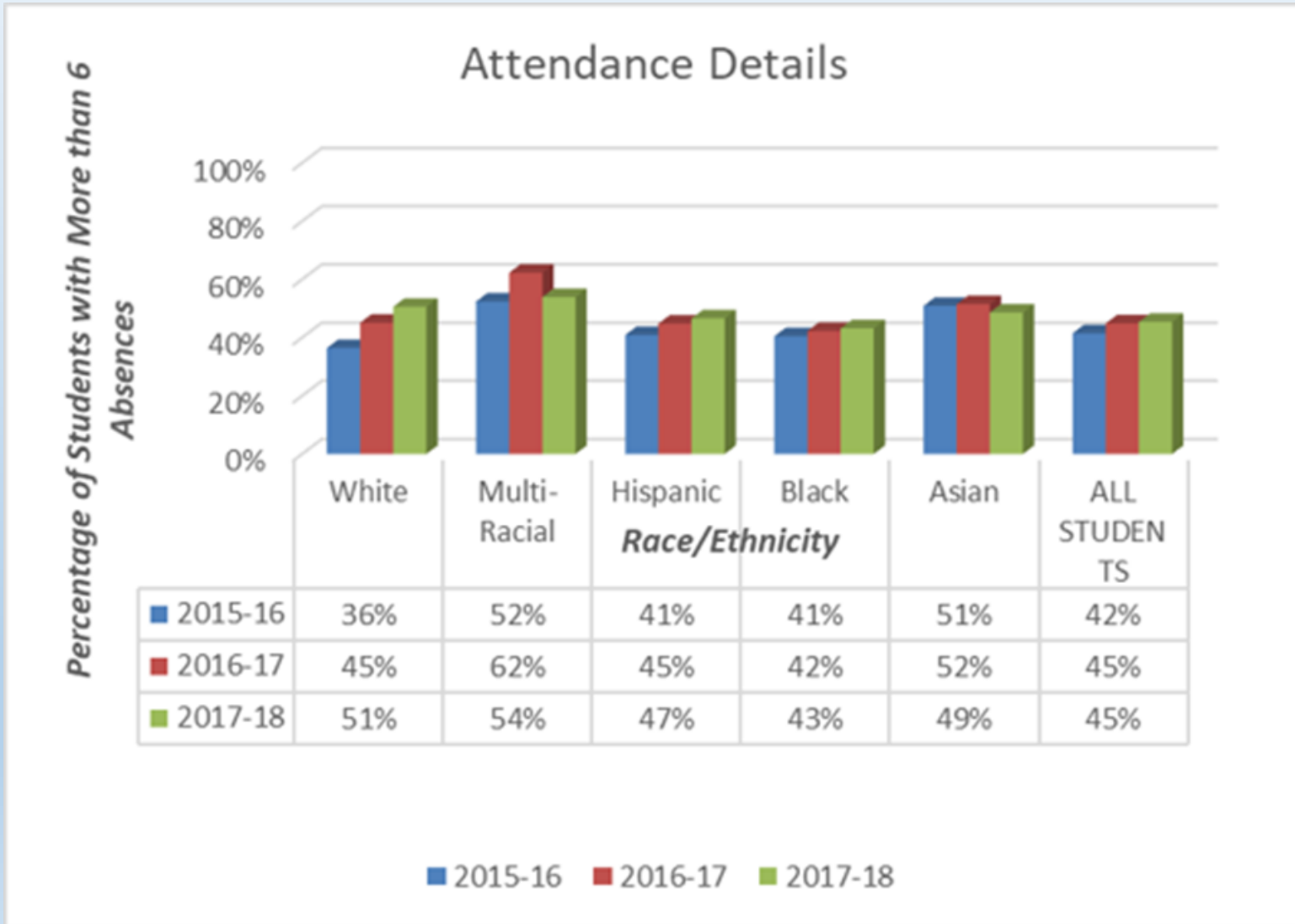
Enrollment by Programs



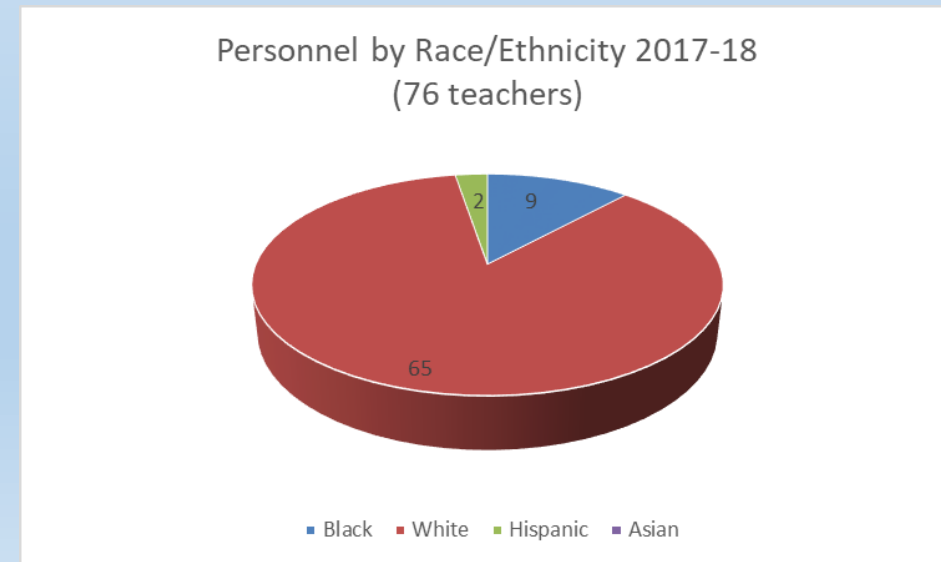
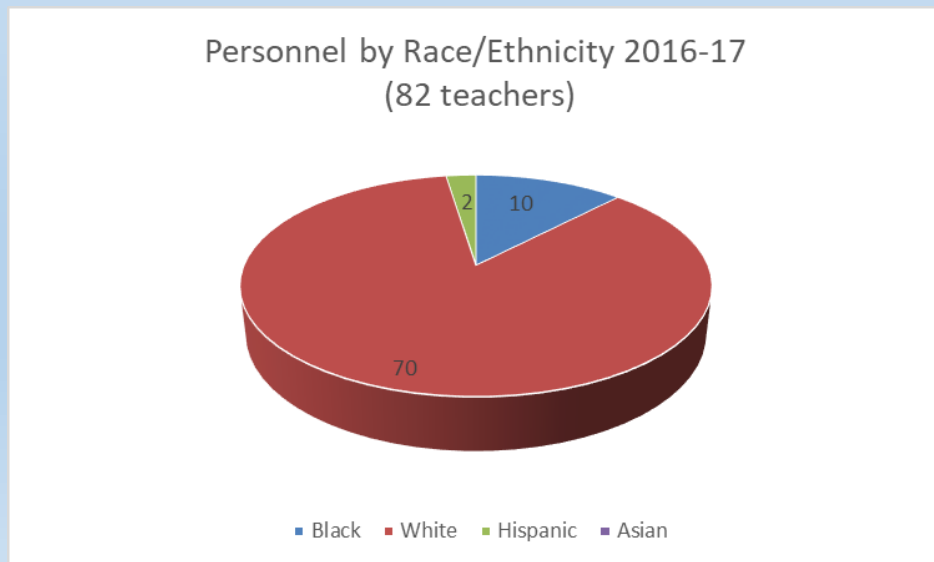
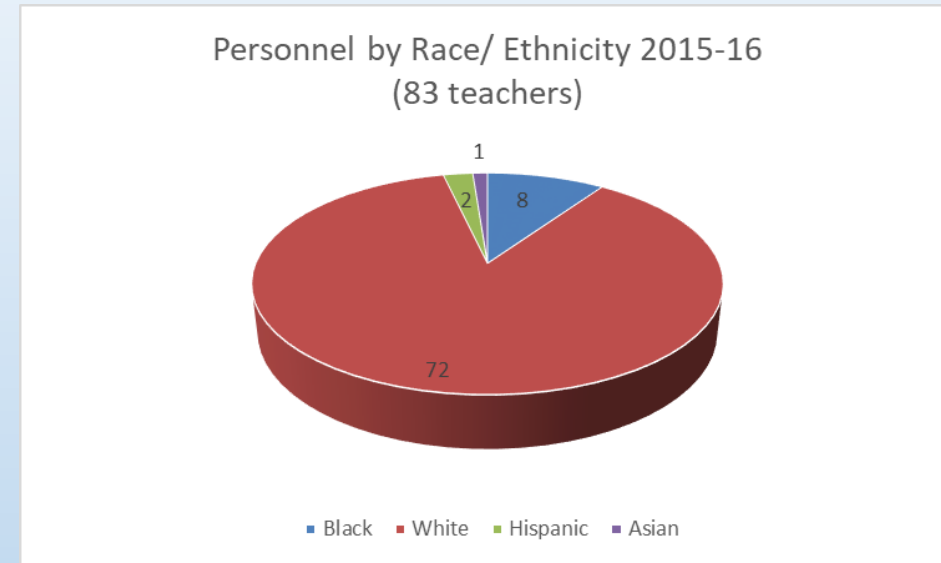
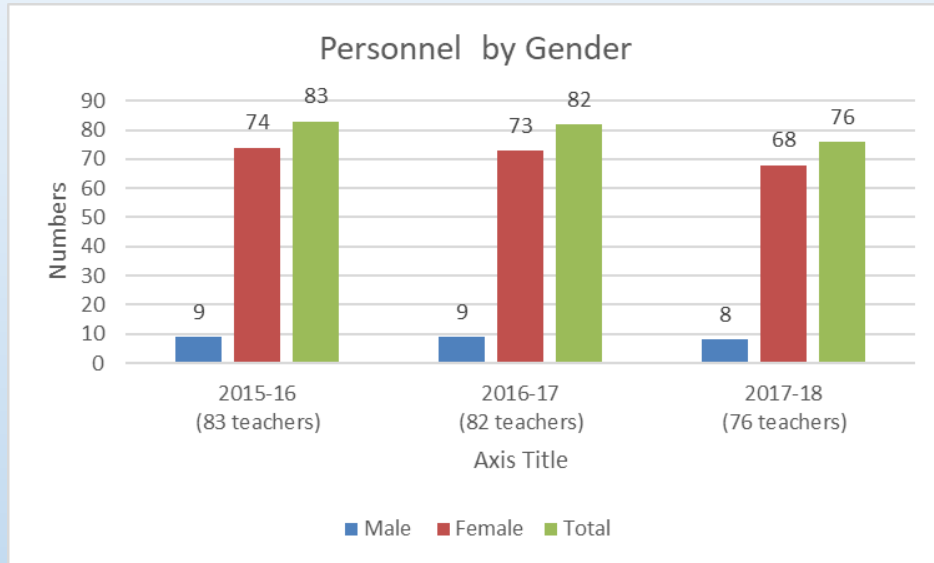
Discipline Factors



Attendance Factors



Faculty Profile (Gender and Race/Ethnicity)

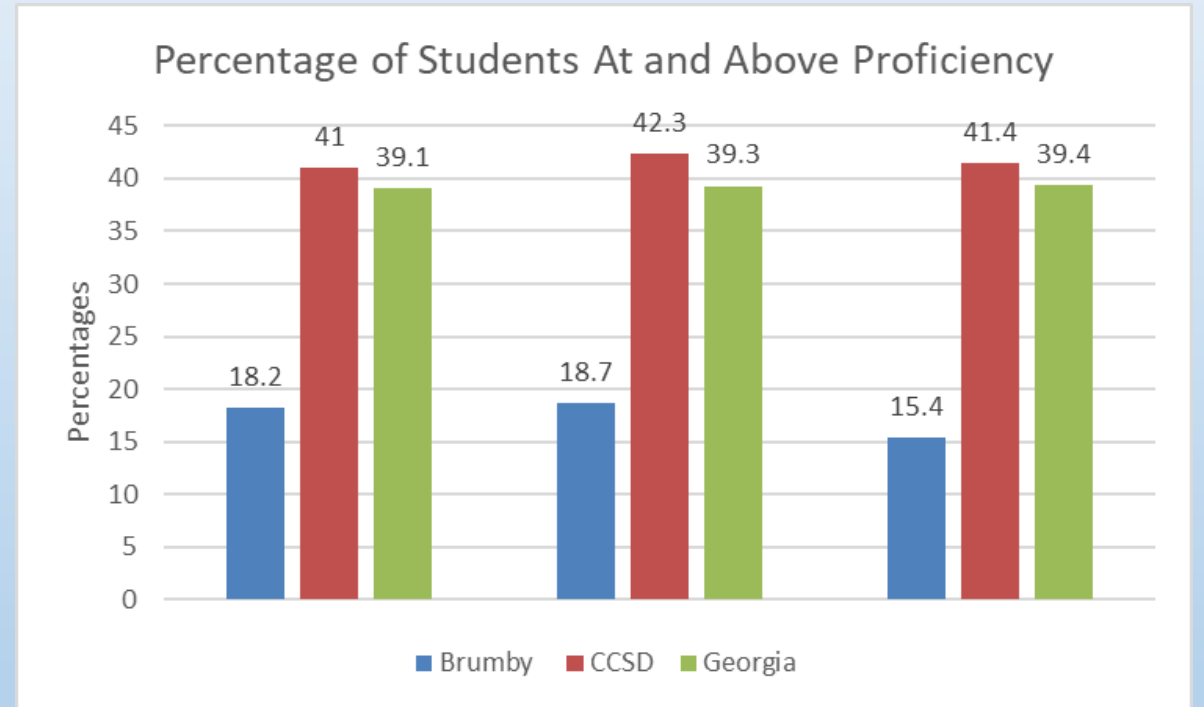
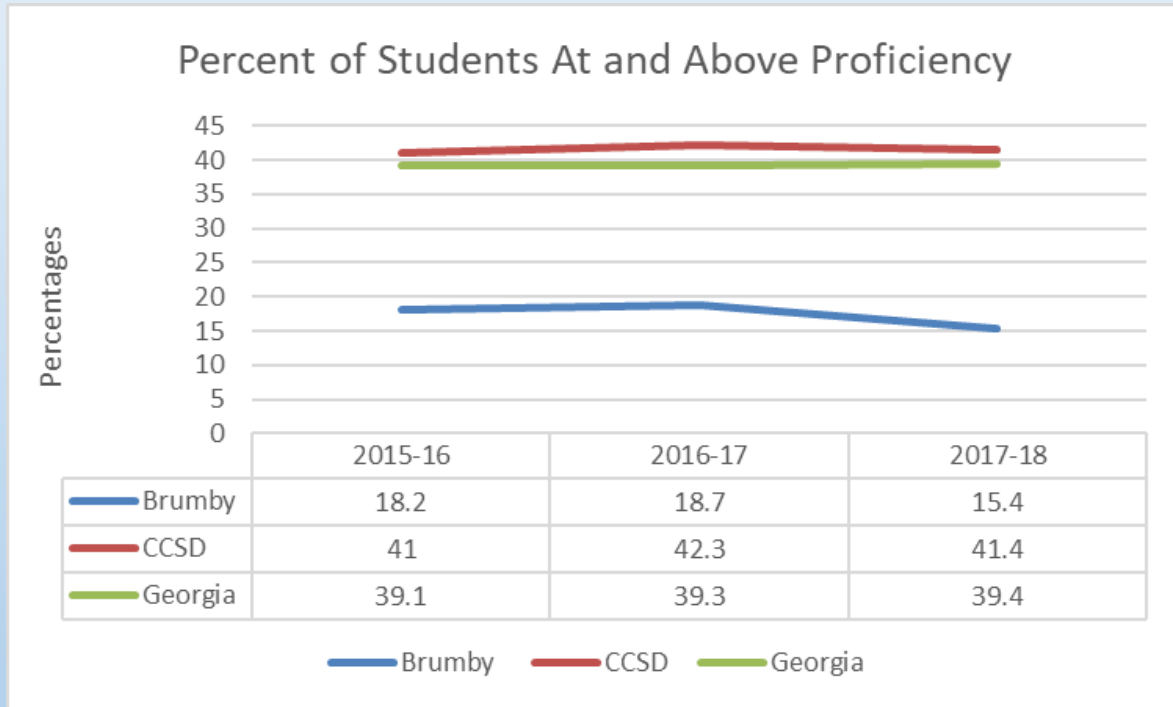


5th Grade Science Milestones

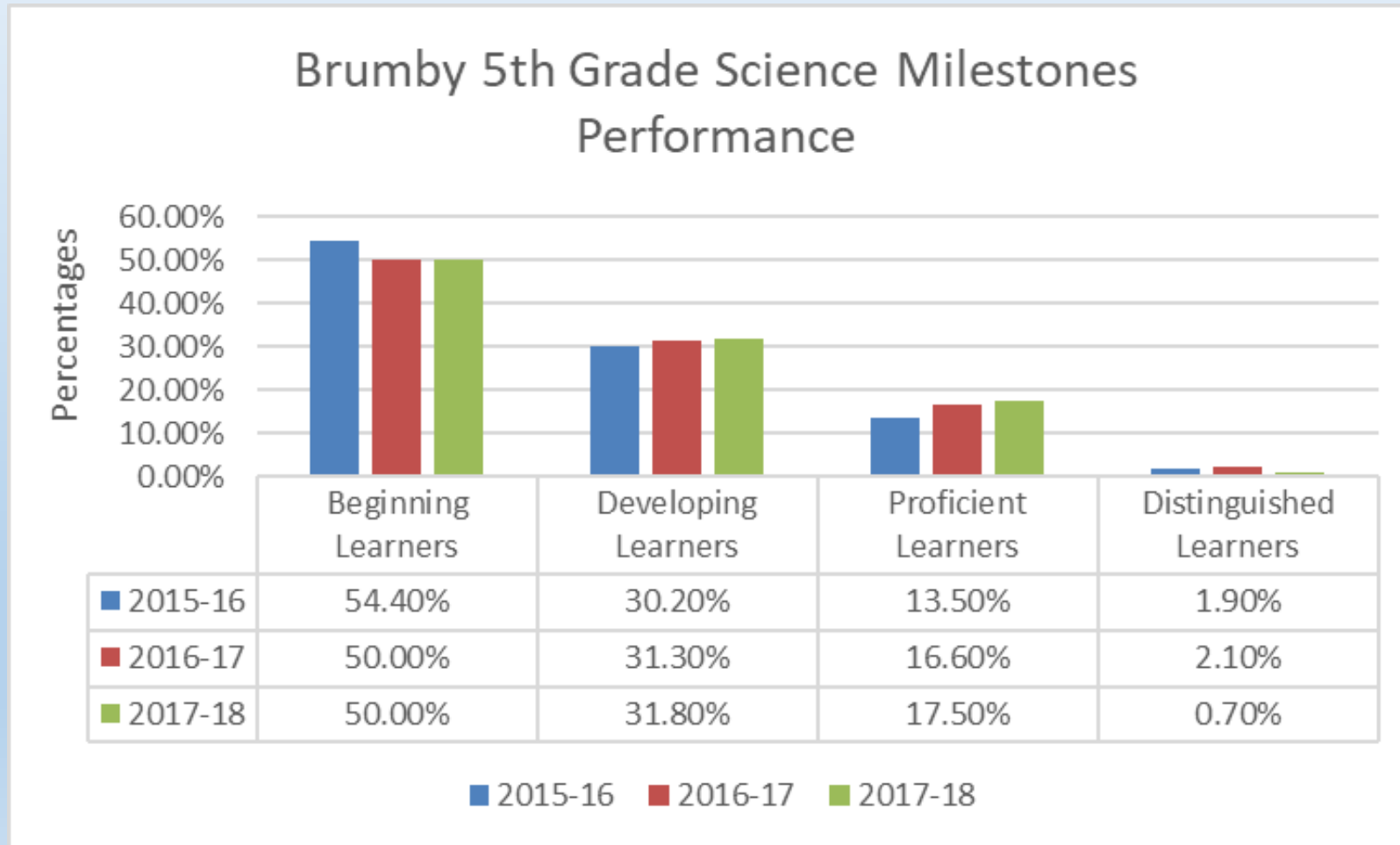
Data Collected from 2015-16 through 2017-18



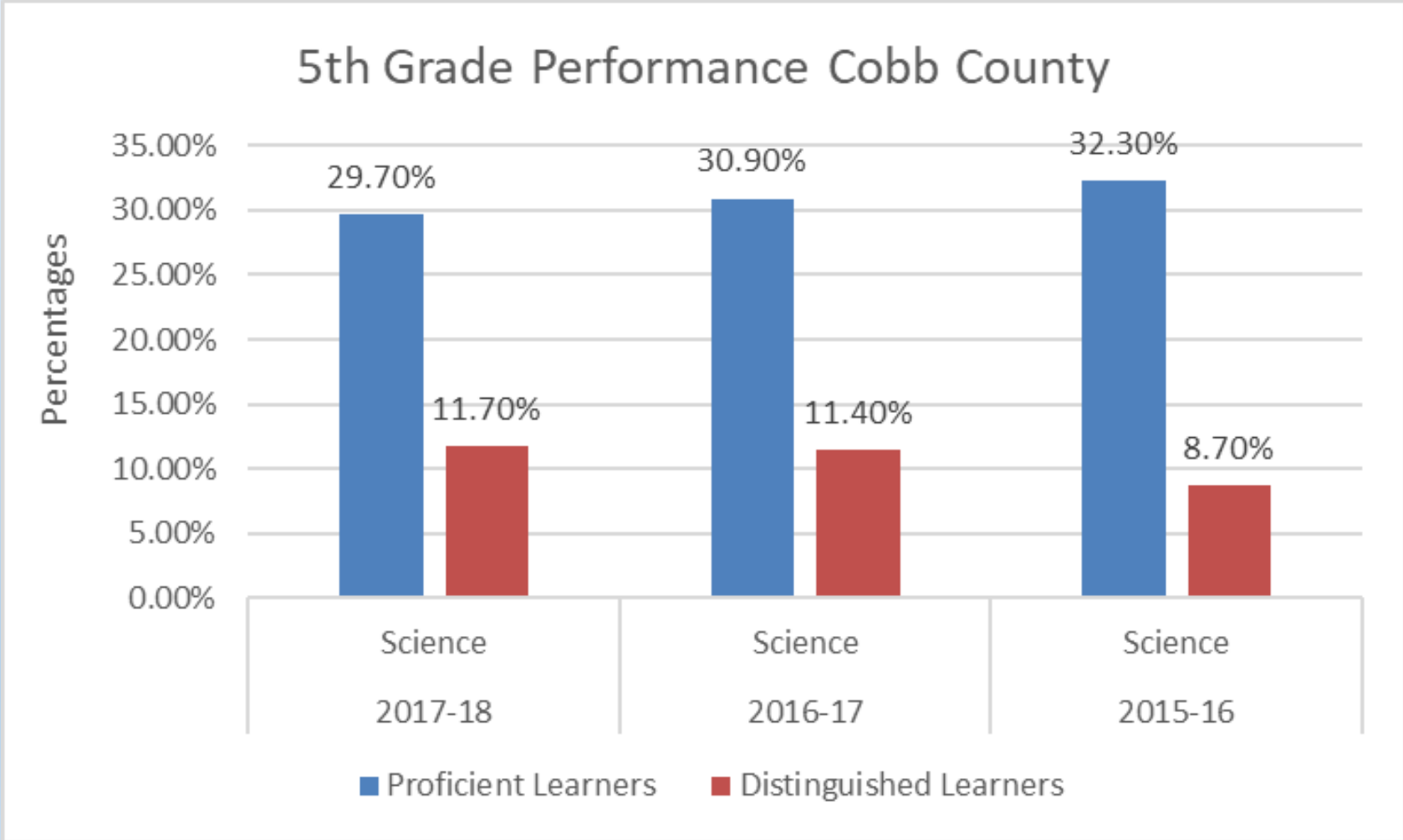
School, County, and Statewide Data for 5th Grade Science Performance



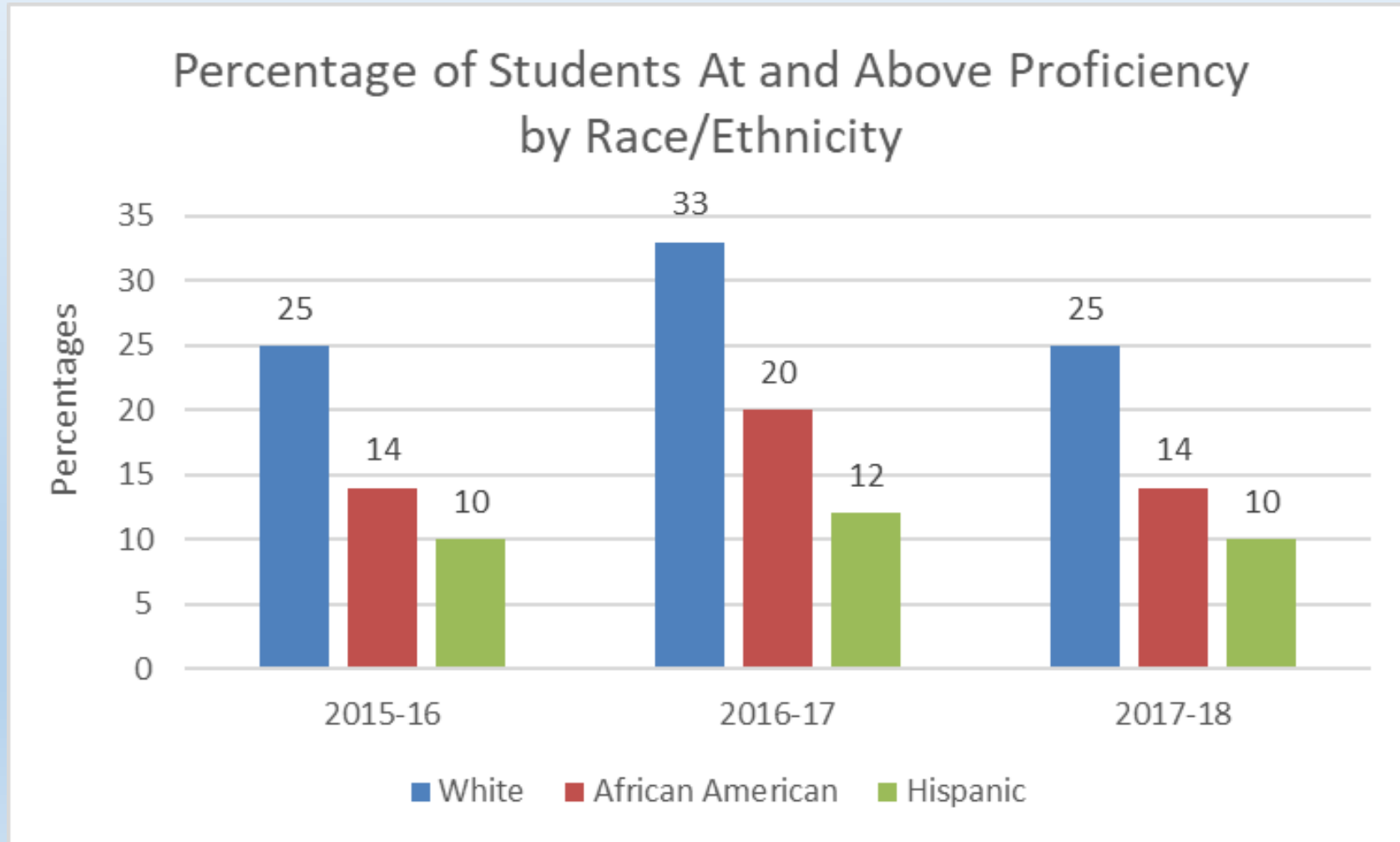
Brumby Elementary Data 2015-2018



5th Grade Science Performance for Cobb County Schools – At and Above Proficiency

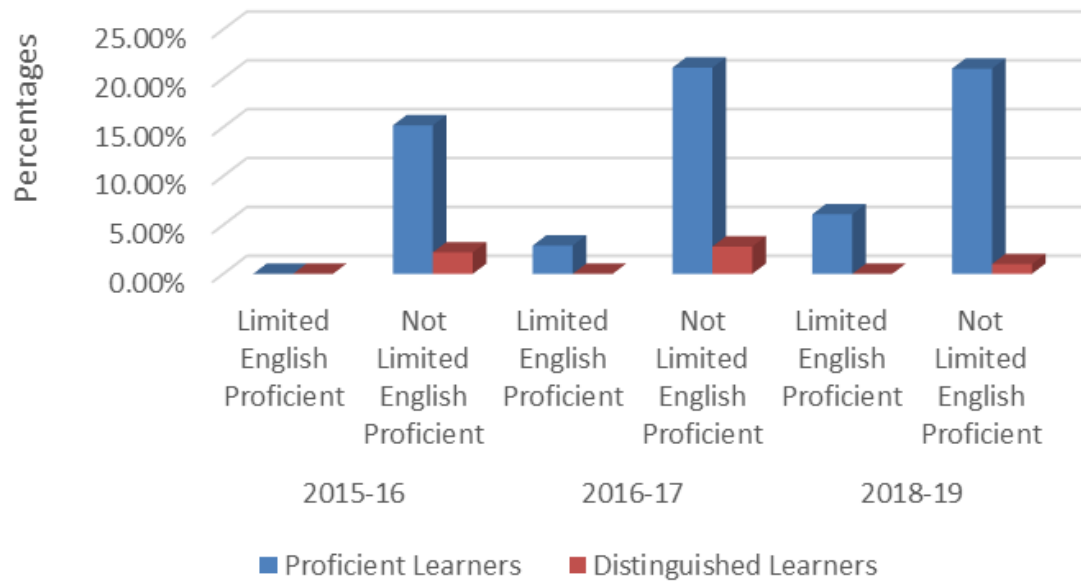


5th Grade Science Performance by Race/Ethnicity

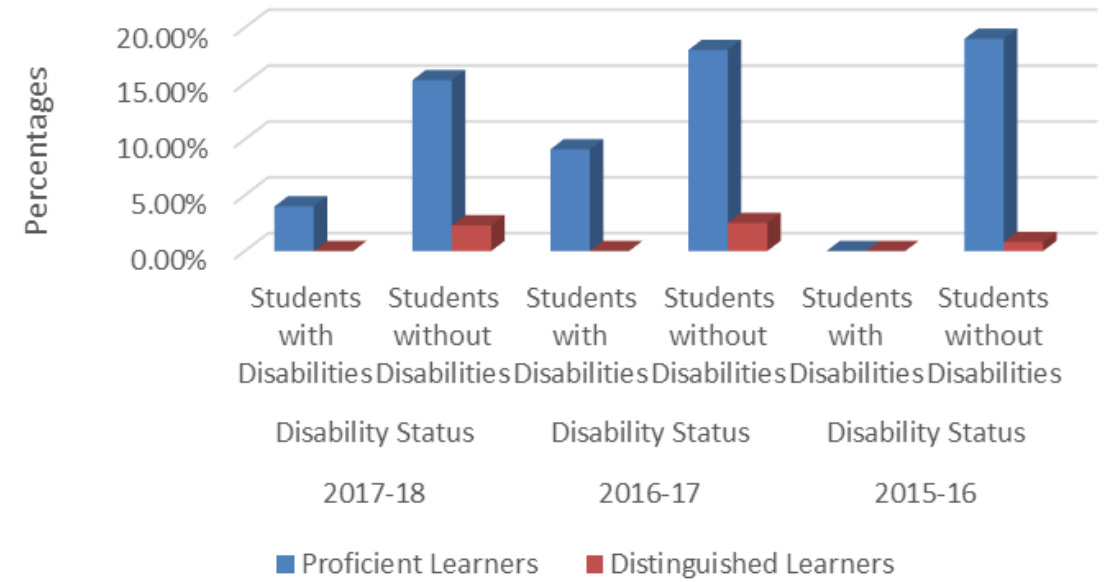


5th Grade Science Comparison by Subgroup

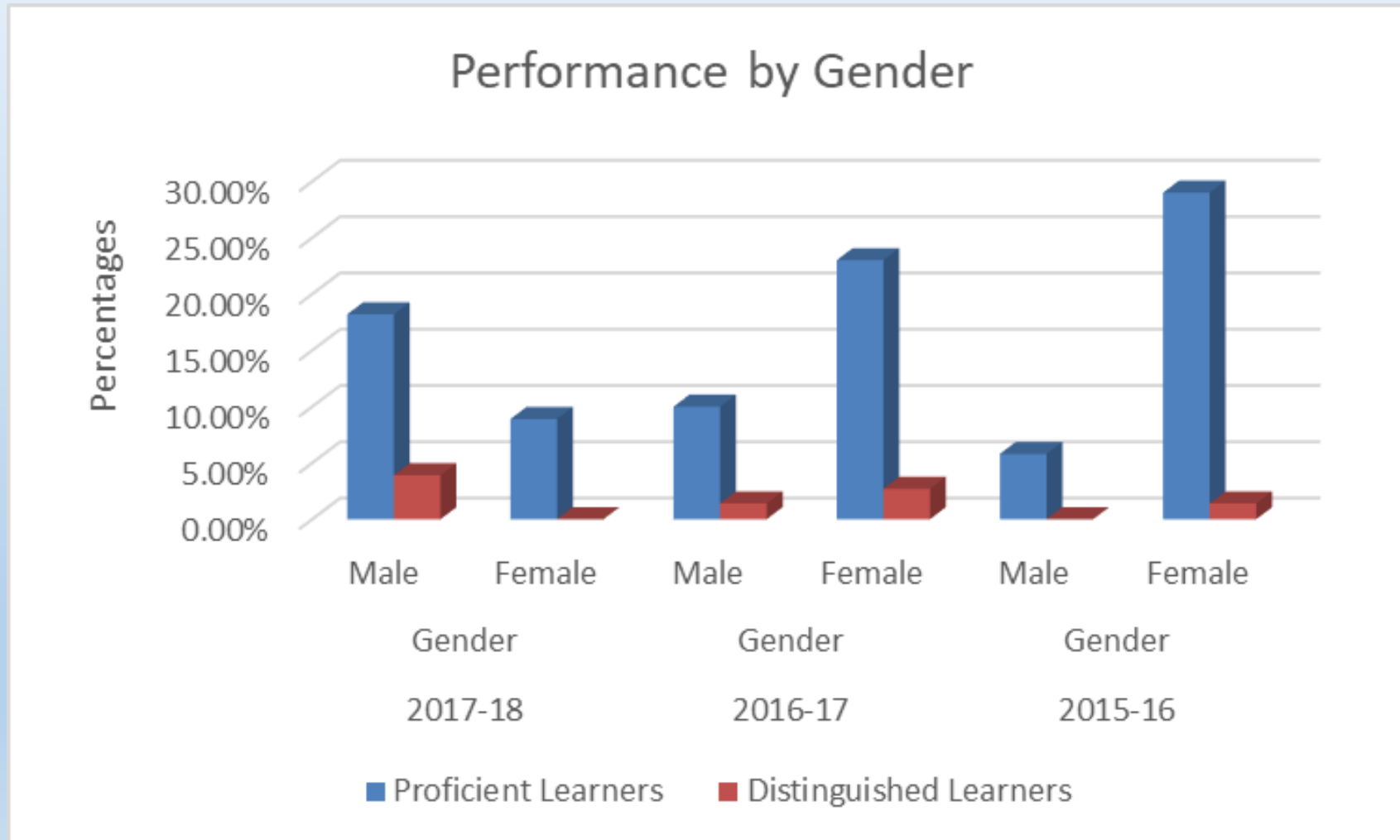
Comparison of English Language Proficiency



5th Grade Comparison SWD



5th Grade Science Performance by Gender



Trends

- Trends indicate that our 5th grade students are under-performing in the area of Science compared with the county and state, and that more of our students are Beginning and Developing learners verses Proficient and Distinguished.
- Asian and African-American students have shown less proficiency than White students, and ELL and SWD have shown gains in proficiency but not as Distinguished learners.
- The male population has continued to make gains in proficiency, while the female population has not.



Discussion of Data

- Areas of Strength include 1) overall increase in Proficient Learners over the three years and 2) an increase in proficiency for males, ELL, and SWD from 2015-2018
- Areas of Weakness include 1) a discrepancy between the percentage of students At and Above Proficiency for Brumby as compared to Cobb County and the state of Georgia and 2) a decrease in proficiency for female students and a lack of ELL and SWD as Distinguished Learners
- Academic improvement is needed to increase the percentage of students At and Above Proficiency overall, and to reverse the trend of female students scoring lower on the Science portion of the Milestones assessment, as well as in support of ELL and SWD continuing to make gains.



Questions/Next Steps

- Address female students' lack of proficiency by implementing STEM and STEAM activities supporting girls and women in Science
- Develop programs to further support ELL and SWD in moving towards proficiency and beyond
- Implement the Science curriculum in Core Extension classes as part of STEM/STEAM Showcase days
- Invite community members whose professions involve Science to be guest speakers or volunteers as part of clubs or activities
- Design project-based learning experiences outside of STEM/STEAM to help students make cross-curricular connections between Science and other subjects
- How can we further address the achievement gap in Science within our school community?

