Math Proficiency in 8th Grade

% Proficient & above on 8th Grade Math (GA Milestones EOC + EOG) – Five-County Region, Disaggregated by Subgroup

Limited English Proficient

- 15% Limited English Proficient
- 44% Not Limited English Proficient

Poverty Status

- 26% Economically Disadvantaged
- 67% Not Economically Disadvantaged

Students With Disabilities

- 12% Students with Disabilities
- 46% Students without Disabilities

Gender

- 44% Female
- 41% Male

Race & Ethnicity

- 71% White
- 26% Black
- 77% Asian
- 32% Hispanic
- 50% Other

Source: The Governor’s Office of Student Achievement (GOSA), 2016-2017 EOG & EOC Georgia Milestones Report

Note: In 2016, standards changed to allow 8th grade students to take advanced algebra and geometry course assessments to fulfill the Georgia Milestones 8th grade mathematics assessment. Proficiency values on this slide represent the percent of students scoring proficient or above on the Georgia Milestones 8th grade mathematics assessment (EOG Report) and the approved advanced mathematics course assessments (EOC Report) combined.
# Math Proficiency in 8th Grade

% Proficient & above on 8th Grade Math (GA Milestones **EOG ONLY**) – Five-County Region, Disaggregated by Subgroup

<table>
<thead>
<tr>
<th>All Students</th>
<th>Limited English Proficient</th>
<th>Poverty Status</th>
<th>Students With Disabilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>30%</td>
<td>32%</td>
<td>53%</td>
<td>34%</td>
</tr>
<tr>
<td></td>
<td>13%</td>
<td>19%</td>
<td>10%</td>
</tr>
<tr>
<td>Gender</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>32%</td>
<td>28%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Race &amp; Ethnicity</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>59%</td>
<td>19%</td>
<td>58%</td>
<td>23%</td>
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<tr>
<td>White</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>19%</td>
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<tr>
<td>Black</td>
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</tr>
<tr>
<td>58%</td>
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<td></td>
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<tr>
<td>Asian</td>
<td>23%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hispanic</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>23%</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>40%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: The Governor’s Office of Student Achievement (GOSA), 2016-2017 EOG Georgia Milestones Report

Note: In 2016, standards changed to allow 8th grade students to take advanced algebra and geometry course assessments to fulfill the Georgia Milestones 8th grade mathematics assessment. Proficiency values on this slide represent only the percent of students scoring proficient or above on the Georgia Milestones 8th grade mathematics assessment (EOG Report).
Math Proficiency in 8th Grade

% Proficient & above on 8th Grade Math (GA Milestones EOC ONLY) – Five-County Region, Disaggregated by Subgroup

Source: The Governor’s Office of Student Achievement (GOSA), 2016-2017 EOC Georgia Milestones Report
Note: In 2016, standards changed to allow 8th grade students to take advanced algebra and geometry course assessments to fulfill the Georgia Milestones 8th grade mathematics assessment. Proficiency values on this slide represent only the percent of students scoring proficient or above on the approved advanced course assessments (EOC Report).
Math Proficiency by Grade

% Proficient & above on 5th, 6th, 7th, & 8th Grade Math, GA Milestones Comparison – Five-County Region, Disaggregated by Subgroup

Source: The Governor’s Office of Student Achievement (GOSA), 2016-2017 EOG & EOC Georgia Milestones Report

Note: In 2016, standards changed to allow 8th grade students to take advanced algebra and geometry course assessments to fulfill the Georgia Milestones 8th grade mathematics assessment. Proficiency values on this slide represent the percent of students scoring proficient or above on the Georgia Milestones 8th grade mathematics assessment (EOG Report) and the approved advanced mathematics course assessments (EOC Report) combined.
Math Proficiency by Grade

% Proficient & above on 5th, 6th, 7th, & 8th Grade Math, GA Milestones Comparison – Five-County Region, Disaggregated by Subgroups

Source: The Governor’s Office of Student Achievement (GOSA), 2016-2017 EOG & EOC Georgia Milestones Report

Note: In 2016, standards changed to allow 8th grade students to take advanced algebra and geometry course assessments to fulfill the Georgia Milestones 8th grade mathematics assessment. Proficiency values on this slide represent the percent of students scoring proficient or above on the Georgia Milestones 8th grade mathematics assessment (EOG Report) and the approved advanced mathematics course assessments (EOC Report) combined.
Impact of Literacy

Relationship Between 8th Grade ELA Proficiency and 8th Grade Math Proficiency

\[ y = 0.8804x + 14.942 \]
\[ R^2 = 0.6524 \]

Source: GOSA, 2016-2017 EOG Report via Neighborhood Nexus
Impact of Socioeconomics

Relationship Between Economic Disadvantage and 8th Grade Math

\[ y = -1.2864x + 101.87 \]

\[ R^2 = 0.6263 \]

Source: GOSA 2016-2017 EOG Report via Neighborhood Nexus
Impact of Attendance

Relationship Between Absenteeism and 8th Grade Math Proficiency

\[ y = -0.1524x + 14.319 \]
\[ R^2 = 0.2896 \]

Source: GOSA 2016-2017 EOG Report via Neighborhood Nexus
Impact of Out-of-School Suspensions

Relationship Between Out-of-School Suspensions and 8th Grade Math

\[ y = -0.1918x + 13.077 \]
\[ R^2 = 0.2935 \]

Source: GOSA 2016-2017 EOG Report via Neighborhood Nexus
Impact of Racial Concentration

Relationship Between Racial Concentration* and 8th Grade Math

Source: GOSA 2016-2017 EOG Report via Neighborhood Nexus

*Note: The percentage of white students is being used as a proxy to measure racial concentration. As the percentage of white students increases (i.e. the school is more racially concentrated), the % of students testing proficient and above also increases.

\[ y = 0.8867x - 4.9158 \]

\[ R^2 = 0.569 \]
Impact of School Climate

School Climate Rating by 8th Grade Math Proficiency – Five-County Region

% of Students Proficient or Above in 8th Grade Math, 2017

1 9.9%
2 10.1%
3 17.6%
4 29.8%
5 43.3%

Source: Georgia Department of Education (GA DOE), GOSA 2016-2017 EOG Report, analysis by Neighborhood Nexus