

## South Carolina Governor's School for Science and Mathematics

401 Railroad Avenue, Hartsville, SC 29550

Website: [www.scgssm.org](http://www.scgssm.org)

Grades 11-12

Enrollment 121 Students

School President Dr. Murray W. Brockman 843-383-3900

Board Chair Dr. Richard N. Chapman 843-661-1291

# THE STATE OF SOUTH CAROLINA 2011 ANNUAL SCHOOL REPORT CARD

## RATINGS OVER 5-YEAR PERIOD

Year	Absolute Rating	Growth Rating
2011	Excellent	Excellent
2010	Excellent	Excellent
2009	Excellent	Excellent
2008	Excellent	Excellent
2007	Excellent	Excellent

## ADEQUATE YEARLY PROGRESS

YES

Definition: As required by the United States Department of Education, Adequate Yearly Progress specifies that the statewide target is met for "All Students" and for the following subgroups: Racial/Ethnic, Subsidized Meals, Disability, and Limited English Proficiency in the areas of English/Language Arts and Mathematics, as well as meeting the statewide target for "All Students" for attendance or graduation rate.

## DEFINITIONS OF SCHOOL RATING TERMS

- Excellent - School performance substantially exceeds the standards for progress toward the 2020 SC Performance Vision
- Good - School performance exceeds the standards for progress toward the 2020 SC Performance Vision
- Average - School performance meets the standards for progress toward the 2020 SC Performance Vision
- Below Average - School is in jeopardy of not meeting the standards for progress toward the 2020 SC Performance Vision
- At-Risk - School performance fails to meet the standards for progress toward the 2020 SC Performance Vision

## SOUTH CAROLINA PERFORMANCE VISION

By 2020 all students will graduate with the knowledge and skills necessary to compete successfully in the global economy, participate in a democratic society and contribute positively as members of families and communities.

PERFORMANCE CRITERIA	DATA
Advanced Placement (AP) Pass Rate	89%
Graduates' College Freshman GPA (In-state Colleges)	3.64
SAT Average (High Verbal & Math) / ( High Verbal, Math, & Writing)	1339 / 1997

### AP TEST SCORE DISTRIBUTION

Score	5		4		3		2		1		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
Students	37	25%	66	44%	30	20%	14	9%	4	3%	151	100%

### COLLEGE FRESHMAN GPA

GPA	3.5-4.0		3.3-3.5		3.1-3.3		2.9-3.1		<2.9		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
Students	37	84%	1	2%	3	7%	0	0%	3	7%	44	100%

### SAT SCORES

	Middle 50%		Range	
SAT Critical Reading	600	700	500	800
SAT Math	640	720	550	800

### A Special Note on Performance

Every student at Governor's School completes a research course requirement that is a distinctive learning and maturing experience. Senior research begins with at least six full weeks of research in the summer following the junior year. Most of the students conduct their research at university or industrial research facilities under the mentorship of professional scientists or engineers. Currently, a special exchange program supports several research positions in Germany. Students work with their research mentors and Governor's School advisors during the senior year to compile and analyze their research findings, prepare formal research papers, and present their work at a school-sponsored colloquium and at the SC Junior Academy of Science annual meeting.

### END OF COURSE TESTS N/A

Abbreviations for Missing Data

**SCHOOL PROFILE**

	Our School	Change from Last Year
<b>Students (n=121)</b>		
Retention rate	0	Same
Attendance rate	97.1%	Up from 96.4%
With disabilities other than speech	2	Down from 3
Older than usual for grade	0	Same
Out-of-of school suspensions or expulsions for violent &/or criminal offenses	N/A	Same
Annual dropout rate	N/A	Same
Students in residence	121	Down from 128
National Achievement Semifinalists/Finalists	25% / 25%	Down from 75%
Seniors Completing Science Research Project	100%	Same
Community Service-hr./student	83	Same
Graduating attending college	100%	Same
Seniors eligible for LIFE Scholarship	100%	Up from 97%
Total scholarship offered	\$9,300,000	Down from \$10,187,194
Number of seniors	50	Down from 62
National Merit Semifinalists/Finalists	32% / 32%	Up from 24% / 21%
<b>Teachers (n=14)</b>		
Teachers with advanced degrees	100%	Same
Percent of classes not taught by highly qualified teachers	N/R	Same
Teachers with emergency or provisional certificates	N/A	Same
Teachers returning from previous year	100%	Same
Teacher attendance rate	99.1%	Up from 98.7%
Average salary	\$63,062	Same
Professional development days per teacher	6	same
Teachers with Doctorates	79%	Same
Years teaching experience-middle 50%	19 to 37	Up from 18 to 36
<b>School</b>		
President's years at the school	10	Up from 9
Student-teacher ratio in core subjects	11 to 1	Up from 10 to 1
Prime instructional time	98.3%	Up from 95.1%
Percent of expenditures for instruction	N/R	Same
Dollars spent per pupil	\$13,122 <sup>a</sup>	Same
Percent of expenditures for teacher salaries	63.0%	Same
Opportunities in the arts	N/A	Same
Parents attending conferences	84%	Down from 86%
SACS accreditation	N/A	Same
University/Industrial Partners in Research Mentor Program	10	Up from 9
Mentors in Research Program	78	Up from 51
Student clubs and organizations	33	Same
Students active in clubs/societies	95%	Down from 98%
Varsity sports teams	9	Same
Students participating in varsity sports	82%	Up from 72%
Students returning to home high school	8.3%	Down from 10.1%
<b>Outreach to other schools</b>		
Students in Summer Science Program (SSP)	266	Up from 223
University Partners in SSP	9	Up from 5
6 week summer research positions for other HS students	3	Down from 12
Other S.C. Educators in Outreach Training/Devel. Programs	179	Down from 266

<sup>a</sup> Costs for academic program including summer research, but not residential life (base state support)

REPORT OF PRESIDENT

From its founding in 1988 by a visionary Act of the General Assembly, GSSM has served as a portal through which talented students from throughout South Carolina have embarked on a lifetime of exploration, discovery and growth. The mission of this unique school emphasizes developing the scientifically astute and ethically aware leaders needed for our expanding knowledge-based economy. Nationally ranked by Newsweek and by the College Board, GSSM is now concentrating on national prominence.

At our founding, GSSM shared facilities with Coker College, and private donors provided all funds for construction. As our successes mounted and our reputation grew, the Board of Trustees approached the General Assembly with plans for a stand-alone campus to house more students. The General Assembly concurred, and our new state-of-the-art campus opened in January 2010. We will begin to expand this year, hiring new faculty in all disciplines and substantially increasing the number of students. Our new Blue Cross Blue Shield Economics and Finance Institute has already opened, broadening and sharpening our student's ability to think in economic and business terms about opportunities in high technology.

GSSM's curriculum is second to none in the state in its depth and challenge, most notably in science and math, but also in the humanities – this year we are adding instruction in Chinese language. Our students continue to perform at the highest levels in both our Residential and Outreach programs, reflecting the individual talents of these remarkable young people. The significant achievements of the students in residence in Hartsville (2059 five-year average SAT, highest in the state; \$9.3 million in scholarship offers to 50 seniors, including 32% who were National Merit or Achievement Scholars) are crowned by their completion of a mentored individual research project at a research university or industrial laboratory in South Carolina, or now, internationally. Thanks to grants from Roche and Greenville Hospital Systems, selected GSSM students carry out research at the German Cancer Research Center in Heidelberg, and German students from the Johnanna Wittum School come here and perform research at USC-Columbia. We are actively pursuing research exchange opportunities in Korea and England. Typically, several students publish their work in peer-reviewed scholarly journals each year.

Appropriate emphasis on extracurricular activities for all students continues to build strong school spirit, with 82% of students participating in varsity athletics. The volleyball team went to the state semi-finals and the girls soccer team made it the first round of the state playoffs. Boys and girls cross country and boys and girls tennis teams participated in the state championship and the boys soccer team was a finalist in the Lower State Championship. Individual members of the swimming team also participated in the state championship. Overall, our athletic program ranks in the top 40 in the state for all schools. In addition, students lead and direct more than 33 clubs and societies, involving 95% of students. Students serve their community and school by working 83 hours each year, supplementing instruction on ethics and character development. Perhaps best of all, students report great satisfaction from forming "friendships for life."

GSSM's Outreach shares exemplary programs statewide to improve science achievement. A continuing grant from Google enabled us to expand a computer-based entrepreneurship camp for middle school students in Berkeley County. Our Summer Science Program encouraged 8th, 9th and 10th graders to explore "real" science, math and computer. A grant from the US Department of Education will enable us to actively seek out and encourage promising seventh graders who wish to pursue math and science. Sonoco has funded a remarkable program with Darlington County Schools, GSSM, Coker College and Yale University to enhance educational excellence at all levels in Hartsville.

We are eagerly planning to enhance this remarkable record. When new faculty and staff are funded, we will continue to grow, more than doubling the students served in both the Outreach and Residential programs. We will pursue opportunities for our students to carry out scientific research globally, and support that effort with enhanced instruction in foreign languages. GSSM will continue to be a flagship for education in South Carolina and, increasingly, the nation.

Murray W. Brockman, President

EVALUATIONS BY STUDENTS, TEACHERS, AND PARENTS

	Students	Teachers	Parents
Number of surveys returned	66	13	32
Satisfied with learning environment	95.5%	84.6%	100.0%
Satisfied with social and physical environment	96.9%	100.0%	93.8%
Satisfied with school-home relations	89.4%	100.0%	93.8%

\*11<sup>th</sup> grade students and parents were surveyed.