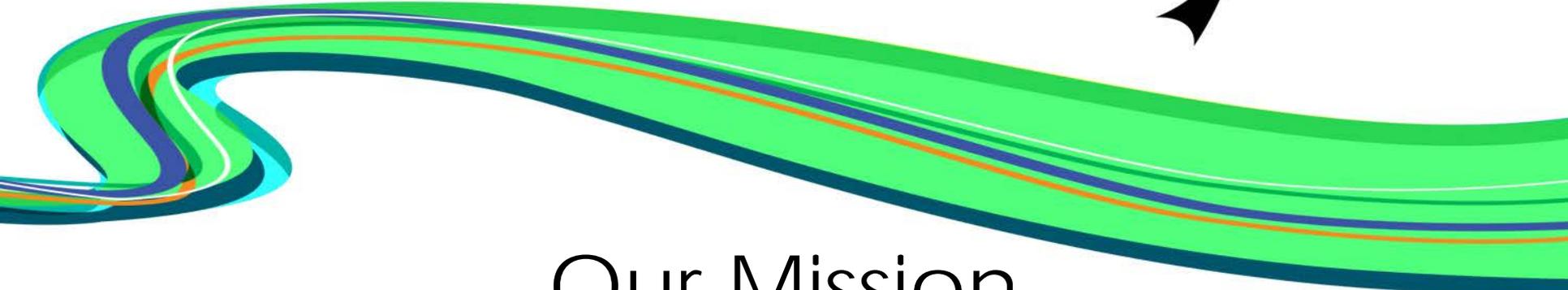
A decorative graphic consisting of several overlapping, wavy lines in shades of green, blue, and orange, flowing from the left side of the slide towards the right.

Virginia Advanced Study Strategies

Paul Nichols, VASS President
January 22, 2013

What is VASS' Role?

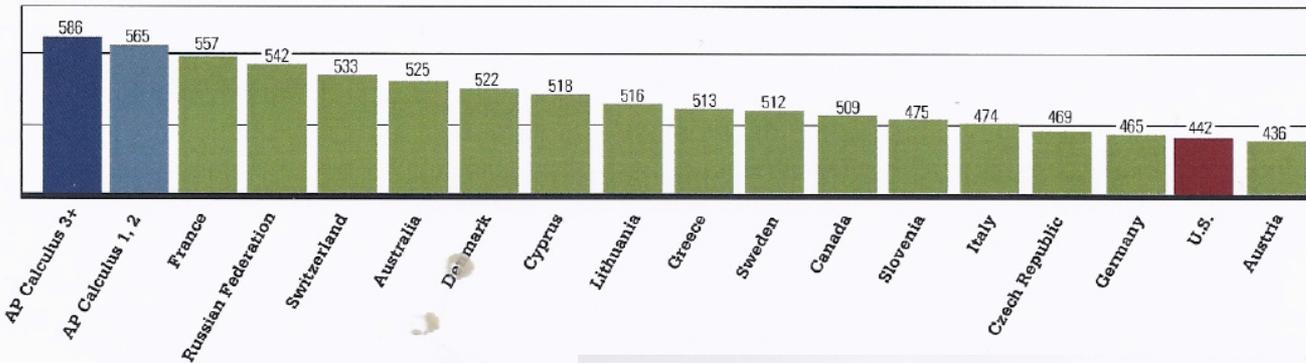
A decorative graphic consisting of several overlapping, wavy lines in shades of green, blue, and orange, flowing from the left side of the slide towards the right.

Our Mission

Virginia Advanced Study Strategies (VASS) prepares tomorrow's workforce by shifting the focus of K12 public education from meeting minimum competencies to a culture of advanced academics so that graduates are prepared for career and college without need of remediation in math, science, reading and writing.

STEM-H Careers require a strong math and science foundation

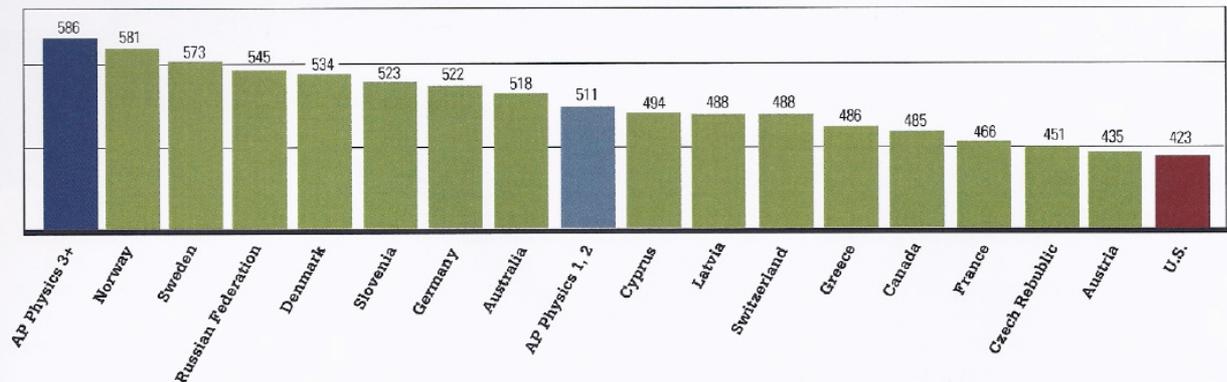
AP Student Performance in Math
TIMSS Report: International Student Achievement in Mathematics



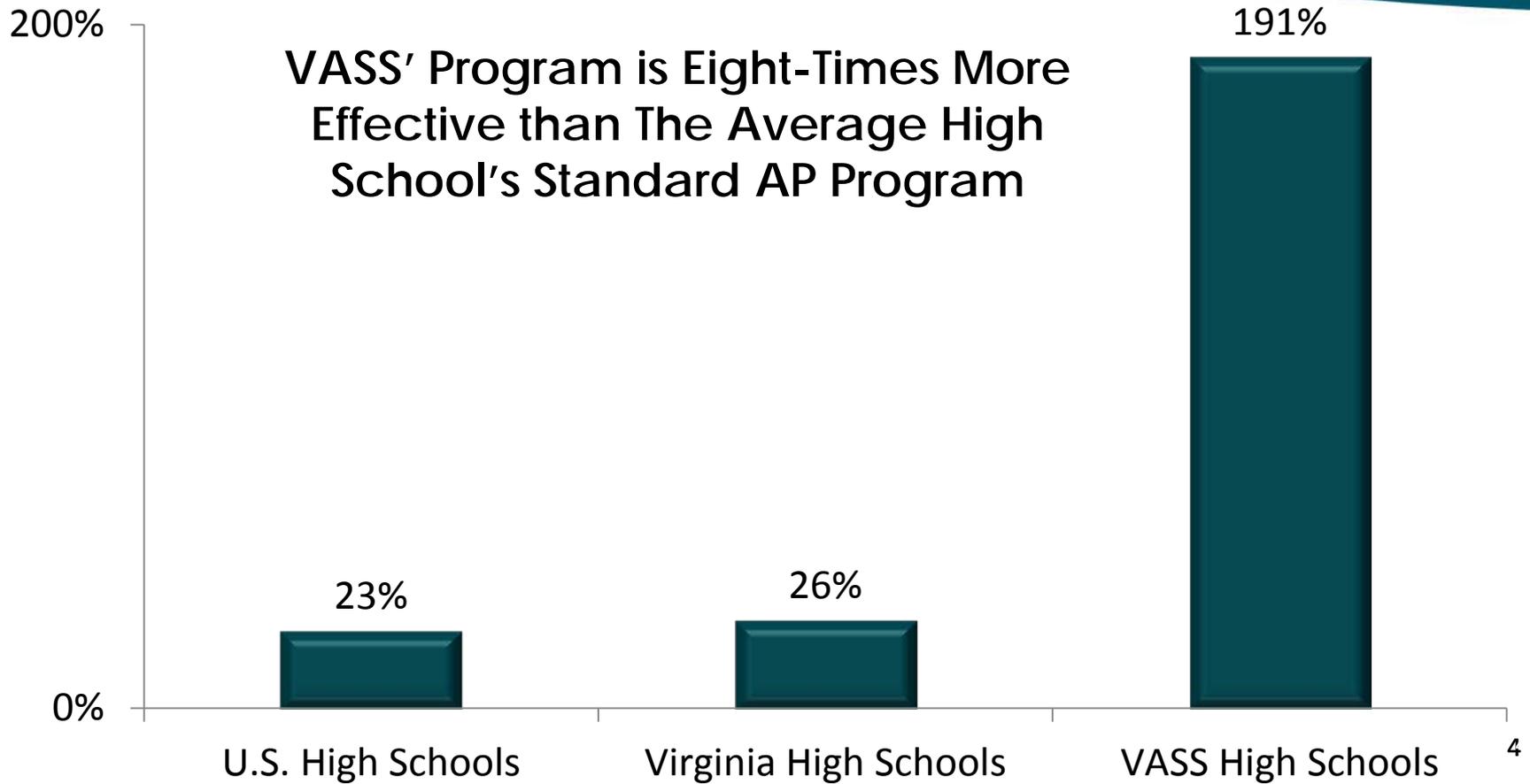
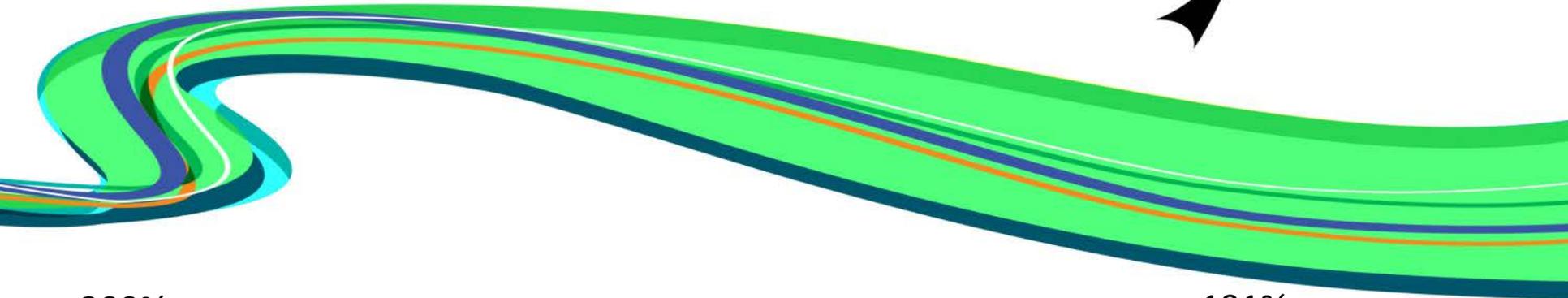
Data shows US students with AP math score best in the world on TIMMS

Data shows US students with AP science and Qualifying Score on AP Exam score best in world and a little below with non-qualifying score.

AP Student Performance in Advanced Science Achievement
TIMSS Report: International Student Achievement in Physics

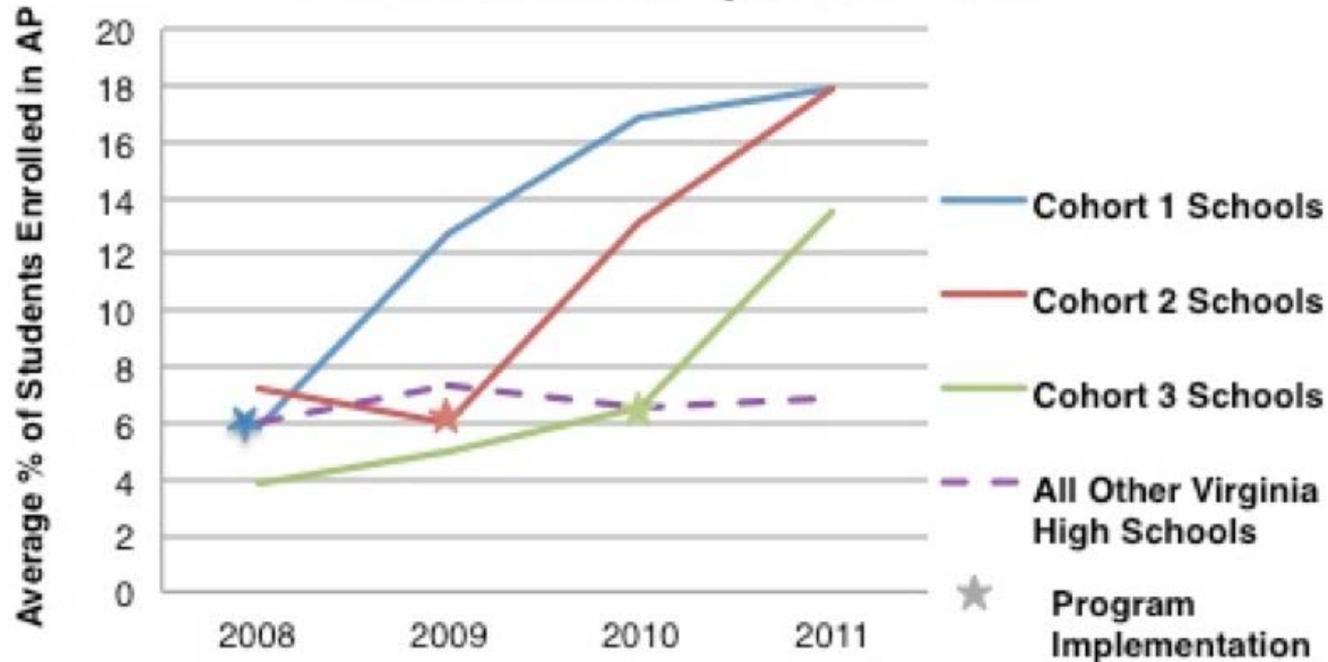


What is Our Success?

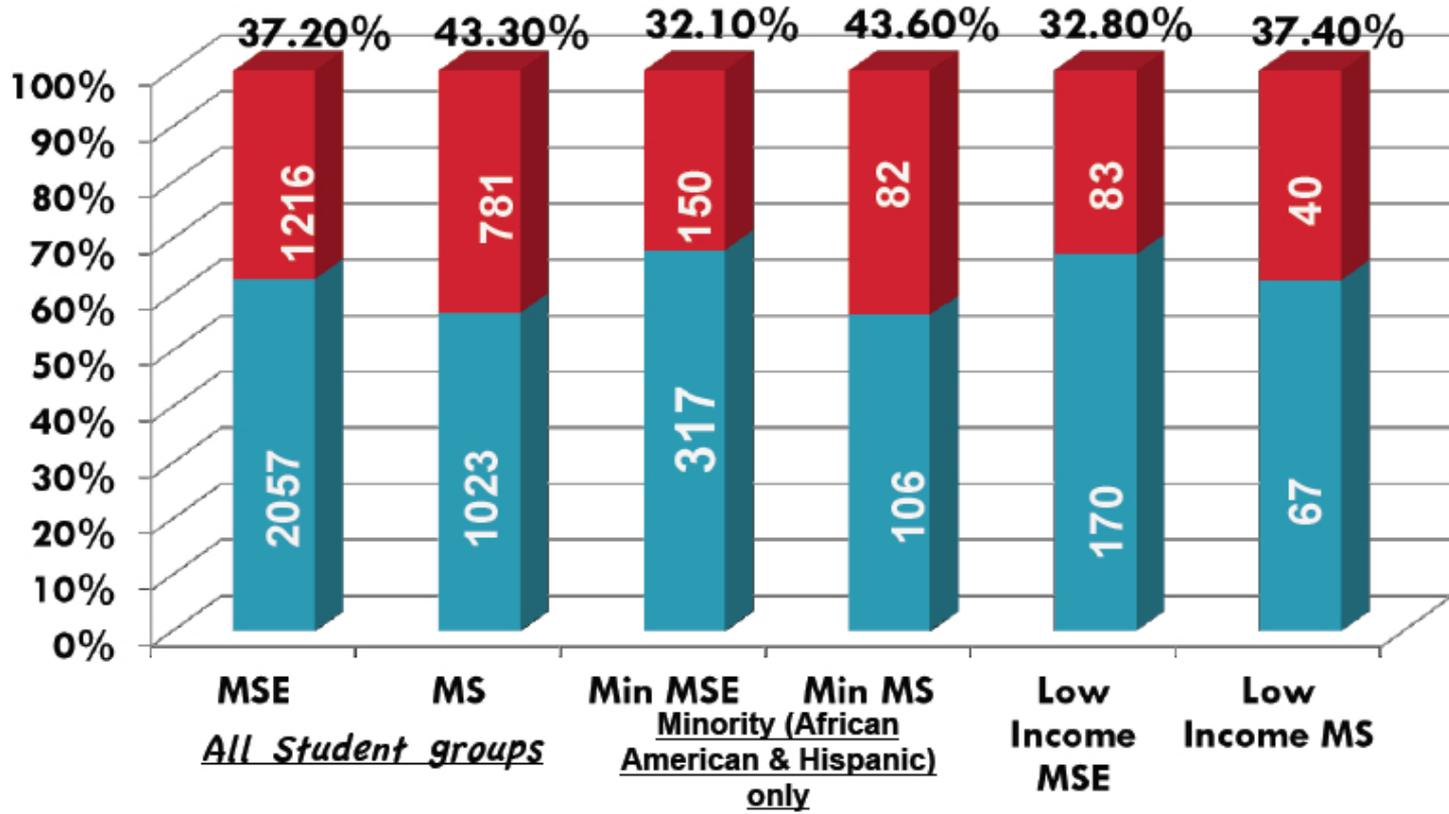
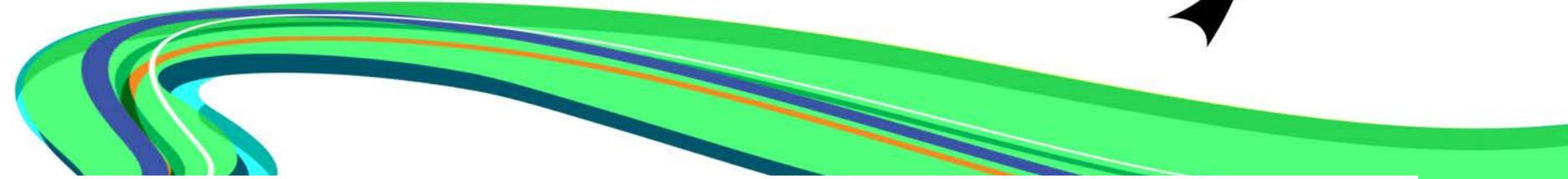


What is Our Success?

Figure 1: Percent of Total Students Enrolled in AP per School



What is Our Success?



VASS impact on Virginia's results in rigorous advanced academic classes in math, science & English. Each graph is total number of students in VA. The Red area is for students in VASS schools and blue in all the others.

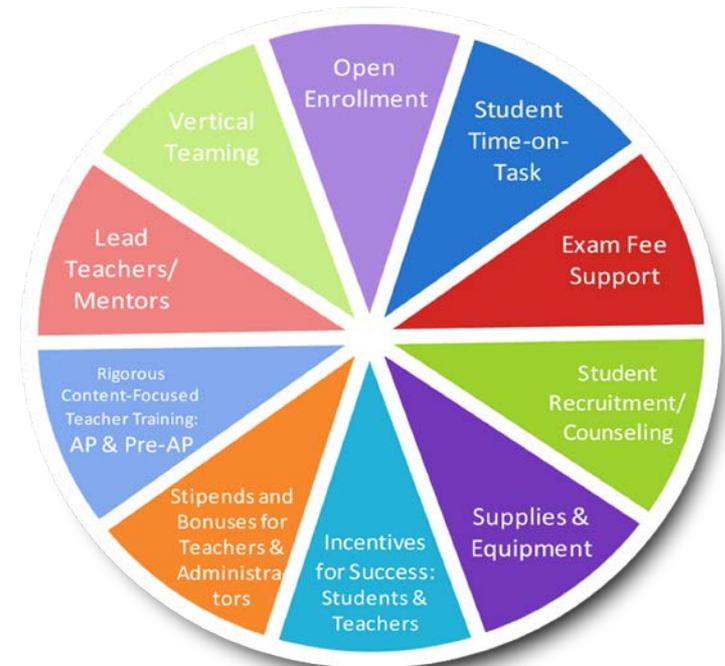
VASS makes up 18% of all schools reporting AP MSE

MSE stands for math, science and English
MS is math and science results only

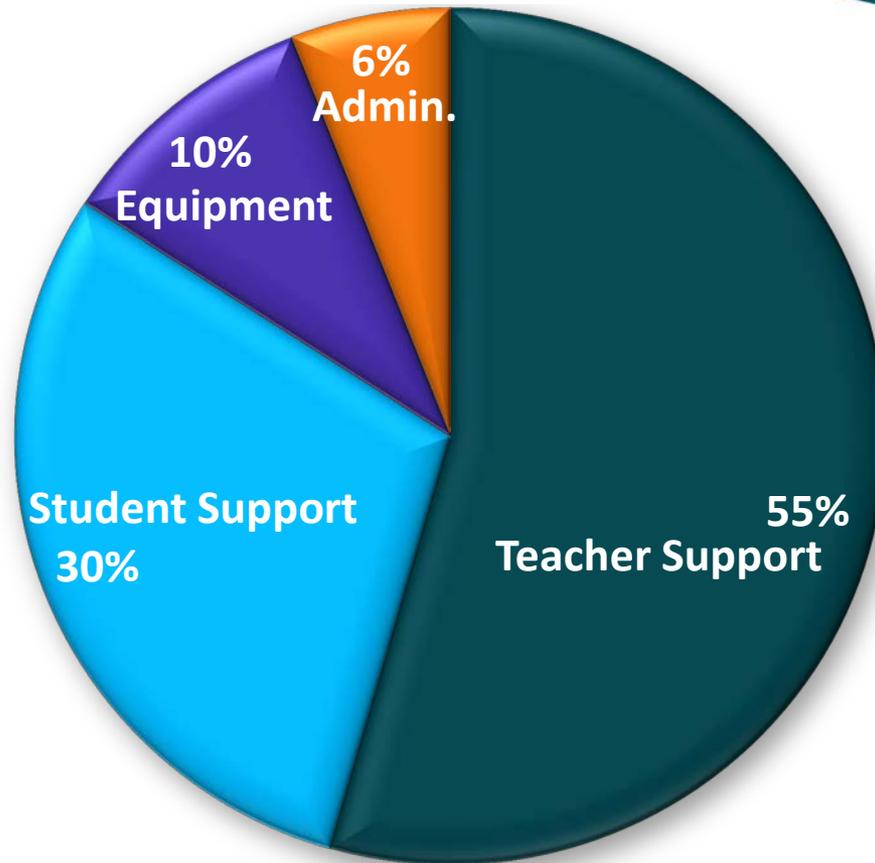
How Do We Implement Our Mission?

Virginia Advanced Study Strategies supports rigorous math, science, and English preparation in 3rd through 12th grade:

- Rigorous, content-focused teacher training
- Additional time on task for students
- Professional development for counselors and administrators
- New equipment and materials for classrooms and
- Financial incentives for students, teachers, and administrators who accept the challenge of developing and maintaining a culture of academic excellence for all.

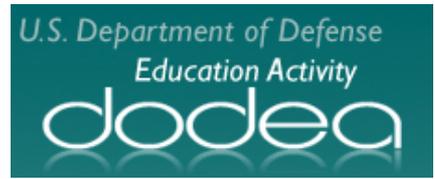


What is the Cost?



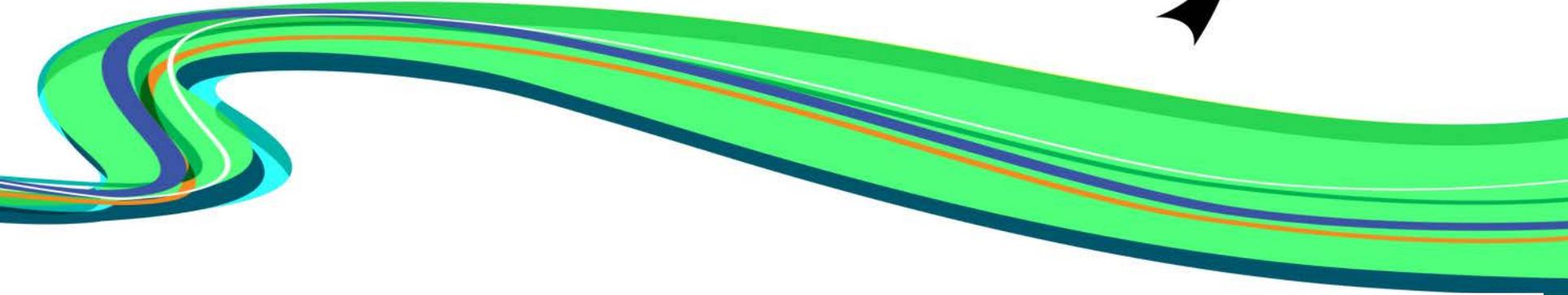
Average Cost Per School:
\$109,840 per year
Average Cost Per Student:
\$411 per year

Who has supported?



Over \$20,000,000.00 has been contributed from private business and foundations to support 75 schools in specific areas of VA.

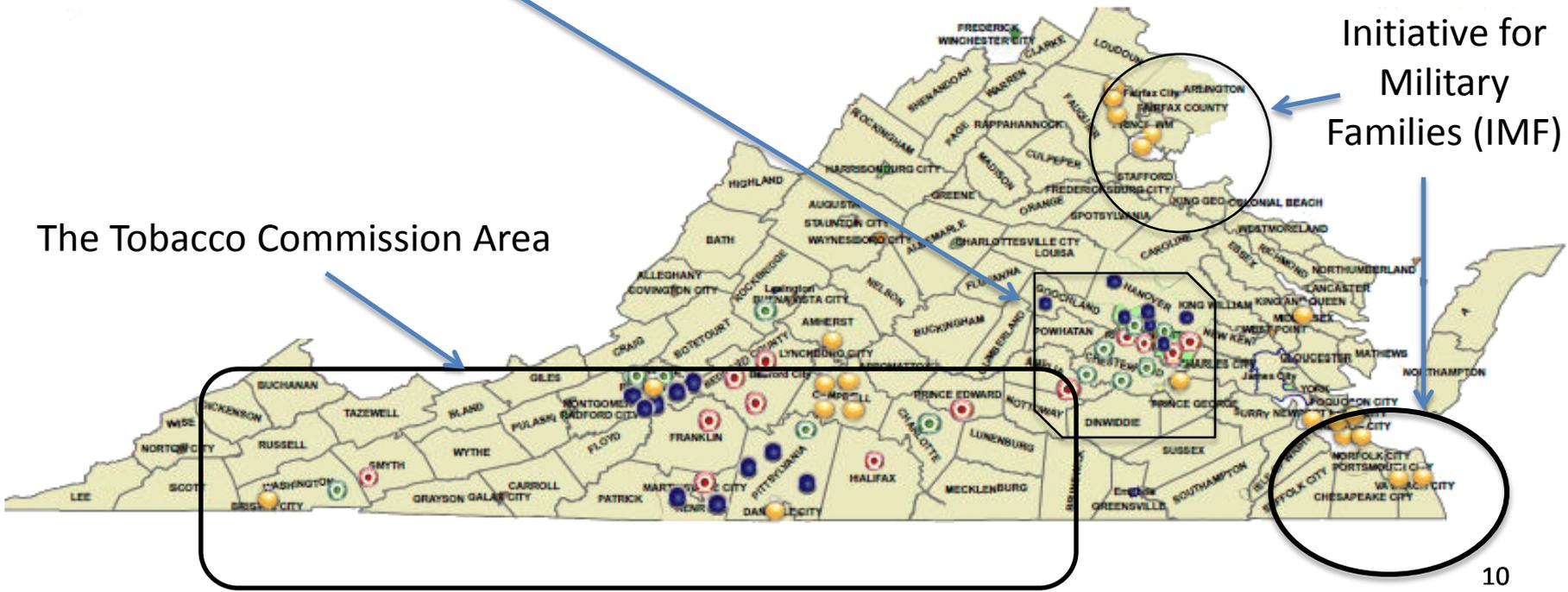
What Schools?



ExxonMobil/Altria Support

Initiative for Military Families (IMF)

The Tobacco Commission Area



Points to Consider

- Advanced Academics is Critical for Workforce Development in STEM-H
- VASS trains 3rd – 12th grade teachers to teach advanced academics in math, science, and English for STEM-H Workforce Development
- VASS touches more military students than any other STEM-H focused program in the nation
- VASS touches more minority students in 3rd – 12th grade with advanced academics

Points to Consider

- VASS has the only proven incentive program for teachers currently in place
- There are many schools in VA seeking VASS partnership but have no local business partners
- Virginia has raised more private money than other NMSI state, but is the only state NMSI program with no state support
- VASS has just secured a \$3,000,000.00 grant from US Dept. of Ed to support a unique Workforce Development Program. This is the perfect opportunity to leverage support for other schools
- A \$1,500,000.00 per year investment through Old Dominion University's Center for Educational Partnerships would leverage support for at least 10 additional impoverished schools each year

Where Does Your Help Go?

Of your support, 96% goes directly to the...

- Professional development of 3rd -12th grade math, science, and English teachers
- Professional development of guidance counselors and parents in career education
- Support for math and science lab equipment
- Support for student services
- Incentives, awards, and/or scholarships for teacher and student success with advanced academic goals

How Does the Future Look?

