

# SCHOOL OF SCIENCE & TECHNOLOGY - DISCOVERY

*Better Education Better Future*

*Tuition Free - College Preparatory- Public Charter School*

## SCHOOL PROFILE

School of Science & Technology - Discovery (SST-Discovery) is a high-performing, open enrollment state public charter school approved and accredited by the Texas Education Agency (TEA). Known for its successful integration of science and math programs into a well-rounded curriculum and diverse student body, SST-Discovery is a school of choice for any (Kinder - 8) student residing in San Antonio Metro Area.

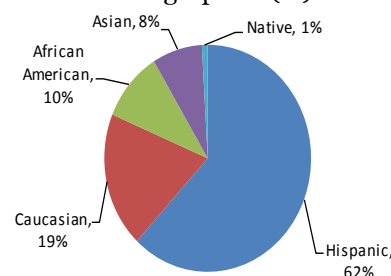
The **Mission** of SST-Discovery is to discipline each student for higher education through delivering a student-centered rigorous educational program with a strong emphasis on science, technology, engineering, and math (STEM) in a safe, caring, and collaborative learning environment.



### SST - Discovery Basic School Statistics

Year Established	2008
Enrollment	410
Grades Served	K - 8
Highly Qualified Teachers %	100%
Daily Attendance Rate%	97%

### Demographics (%)



## SCHOOL MODEL

The success of our students at SST-Discovery is based on a program emphasizing academic excellence while motivating student achievement. The SST School model is:

- Rigorous (prepares students for college)
- Relevant (reinforces math and science skills)
- Relationship (a strong culture of meaningful personal relationships, reinforced by teachers and parents)

SST-Discovery attributes the strong performance of its students to three core principles within the school model:

- A challenging science, technology, engineering, and math (STEM) curriculum
- A focus on data driven instruction across the school system
- A culture of constructive competition, discipline, and parental engagement

### ACCOMPLISHMENTS (in 2013-14 )

- ◆ Being named a High Performing School by Texas Education Agency for closing performance gap and annual improvement.
- ◆ Met all accountability rating standards set by the state and earned the distinction award in closing performance gap.
- ◆ Earned Champion's award at the Texas-Alamo Regional Robotics competition.
- ◆ Represented the state of Texas at the FLL Robotics world festival.
- ◆ Earned championship title at the Stephenville Regional Science Olympiad competition.
- ◆ Ranked as the best charter school in the state of Texas at the State Science Olympiad.

# ACADEMIC PROGRAM

## ☒ *Curriculum addresses all of the state's goals and objectives*



SST teaches the Texas Essential Knowledge and Skills (TEKS) curriculum established by the Texas Education Agency (TEA) and codified in the Texas Administrative Code, Title 19 (19 TAC).

## ☒ *Focuses on Math and Science Education because:*

- ◇ Students who take rigorous math and science courses are more likely to attend college
- ◇ People with strong math and science backgrounds are highly employable
- ◇ Shortages in workers skilled in math and science affect U.S. performance in the global market economy



## ☒ *Our students develop an understanding and appreciation of science, math, and engineering by:*

### ◇ **Participating in Hands-On and Project-Based Learning**



Students learning through a project-based curriculum develop the ability to transfer their learning to new situations, demonstrate an increased ability to define problems and support their reasoning, and are better able to tackle conceptual problems than those taught with a more traditional curriculum.

### ◇ **Early Emphasis on Math and Science Education:**

Students attending SST begin their departmentalized math and science instruction in the third grade, enabling them to receive a strong math and science foundation from highly qualified teachers at an early age.



### ◇ **STEM for All**



STEM (Science-Technology-Engineering-Math) fairs are a tradition at SST. Every student works on a project of their interest in science, technology, engineering, or math. We have found our students' projects have been a valuable means of applying the concepts of scientific research, as well as creating a fun learning experience for our students.

### ◇ **Offering Robotics classes**

SST's robotics classes provide engineering skills for middle school students to design, build, test, and program robots using LEGO MINDSTORMS® technology. Students learn applying real-world math and science concepts and research challenges that today's scientists facing. These classes also help students learn critical thinking, team-building and presentation skills.



## ☒ *Efficient Performance Management & Progress Monitoring*



SST has developed a comprehensive database to empower our school community stakeholders, including students, parents, teachers, and administrators.

- ◇ Our parent portal gives real-time access to student grades, homework, transcripts, discipline records, and library data.
- ◇ Administrators have the information and analytical tools they need to produce reports, track student progress, and follow teacher assessments.
- ◇ Teachers can share classroom resources with other teachers.
- ◇ The Test Analysis module gives teachers and administrators the opportunity to customize the student's remedial work.