

**SAN ANTONIO
TECHNOLOGY
IN EDUCATION
COALITION**

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Where in the real world will you likely be asked to solve for x ?

$$5x + 3 = 2x + 18$$

Student Exit SCORES SCHOOL A

YEAR

PASSING

2014

49%

2015

57%

2016

63%

2017

67%

2018

68%

2019

69%

2020

69%

Will you
be asked
to
analyze
this
data?

**Electronic technologies
- calculators and
computers -
are essential tools for
teaching, learning, and
doing mathematics.**

NCTM Principles and Standards

Technology enhances mathematics and science learning, supports effective teaching, and influences what content is taught. A wide range of technologies serve as tools to engage students with real-world problem solving, conceptual development, and critical thinking.

The San Antonio Technology in Education Coalition (SATEC)

seeks to connect student learning to concrete experiences through the seamless integration of technology into curriculum and instruction.

Technology will not replace
teachers, but teachers who use
technology will replace those who
don't.

Frank Demana

What level of technology?

The richer the better. We have to develop the mentality that we are willing to spend the same kind of money for all children to learn mathematics as we are willing to help small groups on each campus learn to excel in extra-curricular activities. Don't take away the money from such programs, but provide it also to the mathematics and science programs that serve all students.

**SAN ANTONIO TECHNOLOGY
IN EDUCATION COALITION
RECOMMENDED EQUIPMENT AND SOFTWARE LIST**

Graphing Calculator

Multimedia Laptop Computer for Each Student

Or

High powered desktop for each pair of students

Large Capacity Flash Drive

IMAGING EQUIPMENT

Color Laser Printer with Scanning Capability

Digital camera with still and video capability

Video speed minimum of 30 fps

Camera Tripod

IMAGING EQUIPMENT

Large Screen Smart TV (Minimum 70")
Document Camera interfaced with TV and Teacher
Computer
Capacity to show DVD or Blue Ray Disks

DATA COLLECTION DEVICES

At a minimum, one of each of these
for a group of 3 students

Motion Detector, Voltage Probe, Digital Thermometer,
Force Sensor, Photogate, Microphone, Pressure Sensor,
and others as needed for specific courses.

INTERNET CONNECTIVITY

High Speed, High Capacity Internet capability that can serve all student computers in the classroom without degradation.

SOFTWARE SET

Image Analysis Software for both stills and videos
Software for working with Sound
Vernier Graphical Analysis

Microsoft Office 365 Software or Equivalent
Geometer's Sketchpad or Equivalent

SATEC Objective

Students should be learning in schools to use the tools that they will encounter in the 21st Century workplace rather than being schooled in 19th century tools that are sadly still used in the mathematics and science classrooms.