

Mathematics SPCPA Vision

At SPCPA we believe

No tuition, no audition: just as any student can be (and already is) a performing artist (with varying levels of experience/ability), all students already are curious, inquisitive, observant, mindful mathematicians.

Teachers will

Provide a safe space for students to engage with one another, be curious, and make mistakes in a collaborative educational environment.

Upon graduation from SPCPA a Math student will

Be willing and able to use mathematics as a tool to problem solve in their chosen path.

Graduates will be persistent in seeking knowledge and unpacking mysteries in ways that relate to their goals.

Priority Standards in Math

Bundle Algebra to show cross over between Alg 1 & 2

- Recognizing, creating, and interpreting mathematical concepts as graphs, tables, and equations.
- Recognizing and applying patterns of growth (linear, exponential, and quadratic)

Geometry

- Thinking about visual patterns and recognizing connections between them
- Identifying and using properties of figures on a plane
- Connecting visual and abstract representations of concepts

Statistics

- Interpreting categorical and quantitative data
- Using inference to make statements about populations
- Using probability in real world contexts

Trigonometry

- Using radians as an angle measure
- Understanding and applying trig functions to circles and triangles
- Solving trig equations and verifying trig identities

Pre Calc/Calculus

- Modeling with a multitude of families of functions.
- Use equations to make graphs
- Finding and interpreting rates of change
- Calculating and reasoning what the area under a curve represent

Academic Resources for Math Students

- CPM textbook
- Desmos
- Khan Academy
- Geogebra
- And other resources on demand/posted in Google Classroom