



6th-grade Math and Science Teacher

The mission of St. Barnabas Episcopal School is to empower each student to achieve academic and moral excellence in a faith-filled environment based on God's Word.

Reports To: Head of School

Length of Assignment: 10 months

Primary purpose: Be a “show and not tell” teacher, but even more important than that is to have the kids “do” to learn. Be willing to be flexible, accept messiness, maintain control while the students are all building something different. Most important is to empower the students and build relationships with them.

Responsibilities: Duties of the job include, but are not limited to:

Math:

- Teach the at-pace level 6th grade class using Glencoe Course 1 curriculum
- Be able to teach a wide range of skill levels and fill in holes with things as basic as multiplication facts, two-digit multiplication, and long division.
- Find creative ways to explain ratios, rates, and proportions
- Teach decimals and fractional relationships
- Help students understand integers and how to work with negative numbers
- Teach beginning algebraic expressions and equations, along with functions

Science:

- Teach a challenging physical science class to sixth graders
- This class should be a lot of hands-on activities to explain everyday sights
- The teacher understands physics concepts and can break them down to a sixth-grade level
- Includes units on
 - basic scientific practices, scientific notation/method
 - Making and reading graphs
 - Metric conversions and dimensional analysis
 - Motion and force - relative motion, describing motion, vectors, speed, velocity, acceleration, gravity, friction, momentum, Newton's Laws

- Must teach the math that goes along with using formulas for the first time
 - Nature of energy (kinetic and potential along with the forms of energy), conservation of energy, thermal energy, work and power
 - Briefer units on electricity, magnetism, matter, atomic structure
 - Build roller coasters, bridges, mousetrap cars, balloon cars, trebuchets, electrical circuits, and smaller weekly labs and building projects
 - Coordinate the annual Science Expo with the 7th/8th-grade science teacher (This is not a science fair. It's much more wide open.)
 - Every student in the school has a project. Elementary students' projects are supervised by those teachers, but you will coordinate all of them the day of the expo.
 - In middle school, 6th-8th-grade students' role is to make the science fair fun and interactive for the younger students. The teachers will supervise their choice of projects and guide them along the way. Much is done at home, but with a lot of guidance from the teacher.
- Supervise students at morning assembly, lunch/recess, afternoon dismissal every day
 - Be available for weekly faculty meeting or other assigned tasks on Tuesday afternoons
 - Be available for many evening events (Christmas concert, open houses, Back to School BBQ, Spring Social, etc.)
 - Plan and coordinate field trips with your grade level partner
 - Collaborate with a grade-level partner and to a lesser extent, the 7th/8th-grade science teacher, and the whole middle school team
 - Stay up-to-date on the latest research from NSTA and NGSS
 - Submit classroom order requests annually, including textbooks and online subscriptions.
 - Empower the students and find ways to differentiate instruction to help them find their way to achieve their full potential

Qualifications:

- Bachelor's degree in education required or a related subject from an accredited university/college
- Professional teaching certificate
- Minimum 2-3 years of full-time teaching experience preferred
- Gifted and Talented Endorsement preferred
- ESOL Endorsement preferred
- Bilingual: fluent Spanish and English speaking and writing preferred