



Middle School Mathematics Teacher Job Description

Job Title: Middle School STEM Mathematics Teacher

Reports to: Principal

Position Overview:

We are seeking a passionate and forward-thinking Mathematics Educator to join our STEM-focused school. This role is designed for an individual who thrives in an innovative, hands-on learning environment and is committed to fostering critical thinking, creativity, and problem-solving skills. The ideal candidate will inspire students to apply mathematical principles to real-world STEM challenges, integrate technology into lessons, and engage in interdisciplinary teaching that connects math to science, technology, engineering, and other STEM fields.

Key Responsibilities:

Curriculum Development & STEM Integration:

- Develop a robust and engaging mathematics curriculum that aligns with state and national standards while incorporating STEM concepts and real-world applications.
- Emphasize the interconnectedness of mathematics with science, technology, and engineering through project-based learning and cross-curricular initiatives.
- Regularly update and innovate the curriculum, integrating emerging trends in math, technology, and STEM practices to keep students at the forefront of current developments.

Hands-On, Project-Based Learning:

- Design and lead hands-on projects that allow students to explore math concepts in real-world scenarios, fostering problem-solving, critical thinking, and collaboration.
- Encourage students to use mathematical tools, software, and simulations to explore complex problems in engineering, technology, and other STEM disciplines.
- Guide students in the application of mathematical concepts to design and test solutions, providing a platform for them to think like engineers, scientists, and technologists.

Interdisciplinary Collaboration & Active Learning:

- Work collaboratively with science, technology, and engineering educators to create interdisciplinary learning experiences that link math to real-world problems and projects.
- Implement active learning strategies such as flipped classrooms, inquiry-based learning, and collaborative group work to promote student engagement and curiosity in STEM fields.
- Foster a classroom environment that values exploration, experimentation, and interdisciplinary learning, encouraging students to connect mathematical theories to other disciplines.

Classroom Environment & Student-Centered Approach:

- Cultivate a safe, inclusive, and stimulating classroom environment where students feel encouraged to take risks, ask questions, and explore new ideas.



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- Implement student-centered teaching methods, ensuring that all students are actively engaged through interactive lessons, collaborative work, and real-world math applications.
- Promote a growth mindset, encouraging students to persevere in the face of challenges and understand that mistakes are opportunities for learning.

Classroom Management:

- Establish and maintain a well-structured classroom environment that supports high levels of student engagement and respect.
- Differentiate instruction and provide personalized support to students with diverse needs, ensuring that each student has access to the tools and resources they need to succeed.

Technology Integration & Innovation:

- Integrate cutting-edge technologies and software into math lessons, utilizing tools like coding platforms, simulation software, and virtual labs to bring math concepts to life.
- Encourage students to explore how technology can enhance their understanding of mathematical models and problem-solving strategies.
- Stay current with technological trends in math education, applying new tools and methods that inspire creativity and innovation in the classroom.

Assessment & Growth-Focused Feedback:

- Develop and administer a variety of assessments, including traditional tests, collaborative projects, and presentations, to gauge student understanding and growth in mathematics.
- Provide timely, constructive feedback to guide students' progress, helping them identify strengths and areas for improvement.
- Use assessment data to adjust instructional practices and offer personalized enrichment or intervention as needed, fostering continuous academic and personal growth.

STEM Mentorship & Extracurricular Activities:

- Lead and participate in extracurricular STEM activities, such as math clubs, coding challenges, and robotics competitions, helping students apply their math knowledge in meaningful, real-world contexts.
- Provide mentorship to students involved in STEM competitions, guiding them through the process of designing and testing their mathematical solutions to complex problems.
- Inspire students to pursue careers in STEM fields by offering real-world insights and serving as a role model for their academic and professional development.

Professional Development & STEM Leadership:

- Actively participate in ongoing professional development opportunities to stay abreast of the latest trends in STEM education, particularly in integrating mathematics with other STEM fields.
- Engage with professional STEM networks, conferences, and workshops to further your expertise in math instruction and technology integration.
- Serve as a leader and advocate for STEM education within the school community, contributing to the school's overall vision for a dynamic and future-focused learning environment.

Collaboration & School Culture:



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- Work closely with school leadership, colleagues, and parents to ensure alignment between math instruction and the school's STEM-focused mission.
- Attend departmental and school-wide meetings, contributing ideas for curriculum development, student learning, and the integration of STEM initiatives.
- Foster a collaborative school culture that emphasizes teamwork, creativity, and a shared commitment to academic excellence and innovation.

Compliance & Educational Standards:

- Ensure that all math instruction complies with the state, and federal educational standards while meeting the needs of diverse learners.
- Maintain accurate student records, including grades, performance assessments, and attendance, in accordance with district policies and procedures.
- Prepare students for standardized assessments, aligning instruction with the required math skills and competencies to maximize achievement.

Emergency Preparedness & Safety:

- Adhere to school safety protocols and procedures, including emergency drills, lockdown procedures, and ensuring a secure learning environment at all times.
- Participate actively in school-wide safety initiatives and contribute to maintaining a safe and supportive school atmosphere.

Qualifications:

Education:

- Bachelor's degree in Mathematics, Education, or a related STEM field.
- Valid Florida teaching certification for middle school math (grades 6-8) or eligibility to obtain certification through Florida-approved alternative routes, such as the American Board for Certification of Teacher Excellence.
- Prior teaching experience in a middle school or STEM-focused classroom is preferred.
- At least three years of teaching experience, with a focus on math instruction.
- Strong understanding of student development, instructional methods, and curriculum design specific to middle school math.
- Ability to design and implement innovative and challenging math curricula that engage students and promote critical thinking.
- Proficiency in using technology and educational tools that support STEM learning in the classroom.
- Excellent communication skills for interacting with students, parents/guardians, and colleagues.

Knowledge:

- Familiarity with state standards and the ability to design math lessons that align with Florida's academic guidelines.



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- Knowledge of strategies for addressing the diverse learning needs of students, including those with different learning styles, backgrounds, and abilities.
- Understanding of formative and summative assessments used to evaluate student progress in mathematics.
- Experience with STEM integration in the classroom, including the use of technology and hands-on learning tools.
- Awareness of child development principles and the ability to tailor math instruction to students' cognitive and developmental levels.
- Familiarity with behavior management strategies that foster a positive, engaged, and productive learning environment.

Skills:

- Ability to develop clear, engaging lesson plans that align with math curriculum standards and promote student growth.
- Strong classroom management skills to maintain a supportive and structured environment that encourages student participation and collaboration.
- Proficient in assessing student understanding, providing constructive feedback, and adjusting instructional practices based on assessment data.
- Ability to collaborate with other educators, staff, and school leaders to create a unified, enriching academic experience.
- Effective communication skills to clearly explain mathematical concepts to students and parents, and provide timely updates on student progress.
- Strong time management skills to balance lesson planning, grading, student support, and administrative responsibilities.
- Flexibility in adapting to changes in curriculum, teaching strategies, and technological advancements.

Abilities:

- Ability to foster a positive and inclusive classroom culture where all students feel confident in exploring mathematical concepts.
- Strong supervision skills to maintain order during classroom activities, transitions, and extracurricular activities.
- Ability to track and assess student performance, adjust instruction as needed, and provide timely feedback to students and parents.
- Ability to manage classroom dynamics effectively, addressing issues related to academic performance, behavior, and student needs.
- Commitment to ongoing professional development and staying current on educational trends, research, and Florida state education standards.

Equal Employment Opportunity



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TPA is an Equal Opportunity Employer. We are committed to providing equal employment opportunities to all qualified individuals, regardless of race, color, religion, sex, sexual orientation, gender identity, national origin, disability, or protected veteran status. We ensure that all employment decisions are made without discrimination. For additional information regarding your rights as an applicant, please refer to the U.S. Equal Employment Opportunity Commission poster.

Conviction History Background Check

This position requires fingerprinting and a background check due to the nature of the responsibilities. TPA is an equal opportunity employer and considers applicants with conviction histories. We review all background information within the context of the job requirements. Employment may be contingent upon the successful completion of the background check.

Misconduct Disclosure Requirement

As part of the employment process, the final candidate who accepts a conditional offer of employment will be required to disclose any final administrative or judicial decisions within the past seven years that found them responsible for misconduct. Additionally, candidates must disclose if they have received notice of allegations or are currently under investigation in any administrative or disciplinary proceedings involving misconduct, or if they left a previous position while under investigation or after receiving notice of such allegations.

"Misconduct" is defined as any violation of workplace policies or laws, including but not limited to sexual harassment, sexual assault, other forms of harassment, discrimination, dishonesty, or unethical conduct, as defined by the applicant's previous employer. For reference, our institution adheres to policies that address these behaviors.

Job Description Disclaimer:

This job description is intended to provide a general overview of the responsibilities and qualifications for the Physical Education Teacher role. It is not an exhaustive list of all duties and may change at any time, with or without notice.