



JOB DESCRIPTION

JOB OVERVIEW

JOB TITLE	Middle School Computer Science Teacher
JOB PURPOSE	This dynamic role combines fostering a positive and inclusive learning environment for all students with igniting a passion for technology. You'll develop engaging computer science curriculum aligned with Florida State Standards, promoting core concepts, digital literacy, and computational thinking skills that empower students to thrive in a technology-driven world. Working collaboratively with colleagues, you'll contribute to the development and implementation of effective educational programs that prepare students for future success, potentially including careers in computer science.
Responsibilities:	<p>1- Curriculum Development:</p> <ul style="list-style-type: none"> • Design and adapt computer science curricula, lesson plans, and instructional materials that cater to the needs and interests of students. • Incorporate innovative teaching approaches, emerging technologies, and real-world examples to enhance the relevance and appeal of the curriculum. • Align lesson objectives with educational standards and assess student understanding through formative and summative assessments. <p>2- Interactive Classroom Instruction:</p> <ul style="list-style-type: none"> • Develop and deliver engaging computer science lessons that align with curriculum standards and learning objectives. • Utilize a variety of teaching methods, such as interactive discussions, hands-on coding activities, group projects, and multimedia resources, to cater to diverse learning styles. • Encourage critical thinking and problem-solving skills through coding challenges, real-world applications, and logical reasoning exercises. • Facilitate active participation and foster an environment where students feel comfortable asking questions and sharing their insights. <p>3- Classroom Management:</p> <ul style="list-style-type: none"> • Establish and maintain a positive and inclusive classroom environment conducive to learning and collaboration. • Implement effective classroom management strategies to promote student engagement, discipline, and respectful behavior. • Organize classroom materials, technology resources, and seating arrangements for optimal learning experiences. • Monitor student progress, attendance, and participation, and address any behavioral or academic concerns promptly. <p>4- Effective Communication with Parents and Stakeholders:</p> <ul style="list-style-type: none"> • Maintain regular and transparent communication with parents, guardians, and stakeholders regarding students' progress, assignments, and classroom activities. • Host parent-teacher conferences, workshops, and informational sessions to discuss curriculum, student performance, and opportunities for improvement. • Collaborate with school administrators, colleagues, and support staff to share insights, coordinate activities, and contribute to school-wide initiatives. <p>5- Assessment:</p> <ul style="list-style-type: none"> • Develop and implement effective assessment methods, including quizzes, tests, coding projects, and problem-solving challenges, to evaluate students' understanding of computer science concepts. • Analyze assessment results to gauge individual and class-wide performance, identifying areas of strength and areas that may require additional support. • Utilize formative assessments to provide timely feedback, helping students understand their strengths and areas for improvement. • Communicate assessment results to students, parents, and stakeholders in a clear and constructive manner, fostering open dialogue about student performance. <p>6- Record-Keeping:</p> <ul style="list-style-type: none"> • Maintain meticulous and up-to-date records of students' grades, assignments, and project outcomes, adhering to established school procedures. • Organize and securely manage assessment data, ensuring its accuracy and availability for future reference. • Collaborate with colleagues to contribute to school-wide data collection and reporting efforts, supporting

a comprehensive understanding of student progress.

7- Data-Driven Instruction:

- Utilize assessment data to inform instructional decisions, adapting teaching methods and content to address individual learning needs.
- Continuously refine and enhance instructional approaches based on insights gathered from student assessments.

8- Club Sponsorship:

- Organize and lead extracurricular activities, such as coding clubs, technology workshops, or robotics teams, to further engage students in computer science beyond the classroom.
- Provide mentorship and guidance to club members, fostering their passion for technology and encouraging teamwork and creativity.
- Coordinate club meetings, events, and competitions, ensuring a safe and enriching experience for participating students.

9- Create a Safe and Orderly Classroom:

- Establish and enforce clear classroom rules and procedures at the beginning of the year and consistently throughout. Post these rules prominently in the classroom and ensure they align with the school-wide expectations.
- Utilize positive reinforcement strategies to acknowledge and encourage good behavior. Consider a reward system or shout-outs for students who follow the rules and participate actively.
- Proactively monitor student behavior throughout the day, scanning the classroom to identify and address potential issues before they escalate.
- Maintain a positive and organized classroom environment that minimizes distractions and promotes focus.
- Proactively monitor student behavior by scanning the classroom frequently and addressing potential issues before they escalate.
- Enforce school-wide expectations for behavior in the classroom, hallways, during transitions (between activities, classes, lunch), and outside activities (field trips, recess) to ensure overall student safety and well-being.

10- Perform other duties as assigned.

- Abilities:**
- Ability to convey complex computer science concepts in a clear and understandable manner, adapting teaching strategies to engage and cater to the diverse learning styles and abilities of middle school students.
 - Capacity to create a structured and inclusive classroom environment that promotes active learning, collaboration, and respectful behavior among students.
 - Proficiency in guiding students through problem-solving processes, encouraging them to analyze challenges critically and develop creative solutions using coding and computational thinking.
 - Strong interpersonal skills to establish positive relationships with students, parents, colleagues, and school administration, fostering open communication and a supportive learning community.
 - Ability to facilitate critical thinking and analytical skills in students, enabling them to approach computer science challenges with a systematic and logical mindset.
 - Skill in designing innovative and engaging computer science projects, activities, and coding exercises that ignite students' curiosity and encourage them to explore new concepts.
 - Efficiently manage classroom time and plan lessons, ensuring that essential topics are covered while allowing room for interactive activities, discussions, and student exploration.

- Skills:**
- Strong understanding of computer science concepts, programming languages (such as Python, Scratch, or Java), algorithms, and computational thinking. Ability to effectively convey these concepts to middle school students.
 - Strong teaching skills tailored to middle school students, including classroom management, lesson planning, and differentiated instruction to accommodate varying learning styles and abilities.
 - Ability to adjust teaching strategies to engage and motivate students with diverse backgrounds and learning needs, ensuring an inclusive and supportive classroom environment.
 - Excellent verbal and written communication skills to explain complex ideas in a clear and relatable manner. Adept at active listening and fostering open dialogue with students, colleagues, and parents.
 - Skill in cultivating critical thinking and problem-solving skills in students through interactive projects,

	<p>puzzles, and coding challenges.</p> <ul style="list-style-type: none"> • Capacity to collaborate with fellow educators to integrate computer science into interdisciplinary lessons, contributing to a well-rounded education. • Ability to patiently guide students through the learning process, offering individualized support and understanding their unique challenges and strengths. • Capability to design engaging and progressive computer science lesson plans that align with curriculum standards and learning objectives. • Inventiveness in developing hands-on activities, projects, and coding challenges that spark students' creativity and passion for computer science. • Effective classroom management skills to maintain a positive and orderly learning environment conducive to focused learning and collaboration. • Willingness to stay updated on the latest developments in computer science education, technology trends, and teaching methodologies through professional development opportunities. • Strong interpersonal skills to build positive relationships with students, parents, colleagues, and school administration, fostering a sense of community and shared educational goals.
<p>Knowledge:</p>	<ul style="list-style-type: none"> • Strong understanding of foundational computer science principles, including data structures, algorithms, computational thinking, and software development methodologies. • Knowledge of basic computer hardware components, software applications, operating systems, and how they interact to enable computer functionality. • Understanding of educational psychology principles, including child development and learning theories, to tailor teaching methods and strategies to the cognitive and emotional needs of middle school students. • Ability to design and develop age-appropriate computer science curricula, lesson plans, and instructional materials aligned with educational standards and learning objectives. • Familiarity with instructional strategies for middle school students, such as project-based learning, experiential learning, and inquiry-based approaches, to promote engagement and active participation. • Knowledge of educational technology tools, online resources, and platforms used to enhance computer science education, facilitate interactive learning, and provide opportunities for coding practice. • Understanding of ethical behavior, digital citizenship, and online safety practices to instill responsible and safe technology usage in students. • Expertise in fostering problem-solving skills and critical thinking abilities through interactive coding challenges, logical puzzles, and collaborative activities. • Ability to develop effective assessment methods, such as formative and summative assessments, and provide constructive feedback to guide student progress and learning outcomes. • Awareness of current trends, emerging technologies, and developments in the field of computer science, enabling you to provide students with relevant and up-to-date knowledge. • Understanding of data privacy regulations, cybersecurity principles, and responsible data handling when using digital tools and platforms in the classroom.
<p>Qualifications:</p>	<ul style="list-style-type: none"> • Bachelor's degree from an accredited institution. • Holds a valid Florida teaching certificate or is eligible to receive one. • Solid understanding of the Computer Science and the Florida State Standards at the middle school level. • The ability to establish and enforce clear expectations, manage student behavior effectively, and create a positive and productive learning environment. • A repertoire of engaging and interactive instructional strategies that cater to diverse learning styles and promote active student participation. • The ability to differentiate instruction to meet the individual needs and learning styles of all students in your classroom. • Skills in formative and summative assessment to gauge student understanding, identify areas for improvement, and tailor instruction accordingly. • Excellent written and verbal communication skills to effectively interact with students, parents, colleagues, and administrators. • The ability to integrate technology tools and resources effectively to enhance learning and student engagement.

Preferred Qualifications	<ul style="list-style-type: none"> • Enthusiastic about fostering a love for computer science among middle school students and dedicated to their academic growth. • Three years of Computer Science Teaching experience in middle/high school. Proficiency in integrating educational technology and software to enhance learning experiences. • An understanding of learner-centered proficiency-based education. • Demonstrated commitment to academic excellence and a passion for inspiring the next generation of innovators. • Demonstrated ability to create an inclusive and supportive learning environment that encourages curiosity and critical thinking.
Physical Requirements:	Frequently expected to stand, walk, sit, talk, hear, use hands and arms to handle, feel or reach, operate office equipment, computer, copy machines, phones, hand-held learning gadgets, and other office equipment, bend, kneel, crouch and crawl, carry, push, pull and lift or move up to 25 pounds.
Equal Opportunity Employer	Seminole Science Charter School is an equal-opportunity employer committed to diversity and inclusion in its educational community. We encourage all qualified candidates to apply for this rewarding and impactful position. To apply, please submit your resume, a cover letter detailing your experience in education, and your philosophy on teaching middle/high school students.
Disclaimer	The above job description is intended to describe the general nature and level of work being performed by individuals assigned to this position. It is not intended to be an exhaustive list of all responsibilities, duties, and skills required. Duties may be altered or added at the discretion of the school administration.