

Upper Elementary School Computer Teacher

Job Description

Category: Teaching & Learning - Teacher

Department: Teaching & Learning Department

General Qualifications:

- Bachelor's degree in Computer Science, Education, or a related field (Master's degree preferred).
- Teaching diploma or licensure for elementary education with a specialization in Computer Science is preferred.
- Proficiency in coding languages commonly taught at the elementary level (e.g., Scratch, Python).
- Effective communication, interpersonal, and organizational skills.
- Passion for fostering digital literacy and curiosity about technology.

Reporting: IT Coordinator for School

Job Goal: As the Elementary School Computer Science Teacher for grades 4, 5, and 6, the primary responsibility is to provide comprehensive and engaging instruction in computer science, fostering digital literacy, coding skills, and an understanding of technology. The role involves developing age-appropriate lesson plans, implementing interactive teaching strategies, and creating a positive learning environment that encourages students to explore the exciting world of computing. Below are the essential functions and responsibilities:

Essential Functions and Responsibilities

- Curriculum Development and Implementation:
 - Develop and deliver well-structured lesson plans aligned with the elementary school computer science curriculum.
 - Teach and reinforce fundamental computer science skills, including digital literacy, coding, and problem-solving.
- Digital Literacy:
 - Cultivate digital literacy skills, including internet safety, online research, and responsible use of technology.
 - Provide guidance on navigating digital platforms and understanding digital citizenship.
- Coding and Programming:
 - Introduce students to coding and programming concepts through age-appropriate languages and tools.
 - Foster problem-solving skills through coding projects and interactive exercises.
- Computer Hardware and Software:

- Teach basic concepts of computer hardware and software to enhance students' understanding of technology.
 - Explore the functionalities of common software applications and tools.
- **Robotics and STEM Integration:**
 - Integrate robotics and STEM (Science, Technology, Engineering, and Mathematics) concepts into computer science lessons.
 - Engage students in hands-on activities and projects related to robotics and STEM fields.
- **Interactive Learning:**
 - Incorporate interactive learning activities, educational games, and simulations to make computer science lessons engaging.
 - Utilize educational technology to enhance understanding of computer science concepts.
- **Collaborative Projects:**
 - Facilitate collaborative projects that encourage teamwork and creativity in solving technological challenges.
 - Encourage students to apply computer science skills in interdisciplinary projects.
- **Assessment and Feedback:**
 - Implement formative and summative assessments to evaluate students' understanding of computer science concepts.
 - Provide constructive feedback to help students improve their coding and problem-solving skills.
- **Integration with Other Subjects:**
 - Collaborate with other subject teachers to integrate computer science concepts into interdisciplinary projects.
 - Connect computer science to other areas of study, such as mathematics, science, or language arts.
- **Parental Communication:**
 - Communicate regularly with parents or guardians to share information about students' progress in computer science.
 - Conduct parent-teacher conferences to discuss individual student performance and growth.
- **Participation in Coding Competitions:**
 - Encourage and prepare students to participate in coding competitions and technology-related events.
 - Provide support and guidance for students interested in pursuing advanced coding challenges.
- **Technology Trends and Updates:**
 - informed about current technology trends and updates relevant to computer science education.

- Incorporate emerging technologies and advancements into the curriculum where applicable.

Evaluation Method

The Upper Elementary School Computer Science teacher shall teach the Computer Curriculum assigned for its section to the students. The Teaching & Learning Director will drive the evaluation process according to the defined procedure. The KPIs for measuring the effectiveness of the Upper Elementary School Computer teacher's contribution to the overall function of the school include: *Digital Literacy Proficiency (internet safety knowledge, Digital citizenship skills), Coding and programming skills (coding proficiency, problem-solving abilities), understanding of computer hardware and software (knowledge of computer components, software application competence), Robotics and STEM integration impact (Application of STEM concepts, creativity in STEM-related projects), Interactive learning engagement (Participation in interactive activities, utilization of education technology), Collaborative project success (teamwork and collaboration, application of computer science skills in projects), Assessment and feedback effectiveness (Coding and problem-solving assessments, quality of feedback), Integration with other subjects (Cross-curricular integration impact, holistic educational experience), Parental communication and involvement (communication frequency, parental involvement in computer science activities), Participation in coding competitions (number of participants, success in coding competitions), Professional development and stay updated (engagement in professional development, incorporation of emerging technologies), adaptive teaching strategies (differentiation of instruction, individualized support), Parent and Stakeholder Communication (Communication with Parents, Parental Engagement).*

Selection and Appointment Process

Interested candidates should submit a resume, a portfolio of similar work done, and a cover letter explaining their qualifications and interest in the position. Application instructions and contact information should be included. This Job Description provides an overview of the responsibilities and qualifications for a Upper Elementary School Computer Teacher. The specific requirements and expectations may vary depending on the school's needs, and the scope of its teaching and learning efforts.