

Middle School Physics Teacher

Job Description-Reference code 010019

Category: Teaching & Learning - Teacher

Department: Teaching & Learning Department

General Qualifications:

- Bachelor's degree in Physics, Physical Sciences, Education, or related field (Master's degree preferred).
- Teaching Diploma or licensure for middle school education with a specialization in Physics is preferred.
- Strong knowledge of middle school physics curriculum, instructional strategies, and assessment techniques. (3 years' experience and above)
- Effective communication, interpersonal, and organizational skills.
- Passion for physics education and fostering scientific curiosity in students.

Reporting: Physics Coordinator for School

Job Goal: As the Middle School Physics Teacher for grades 7, 8, and 9, the primary responsibility is to provide engaging and comprehensive instruction in physics, fostering scientific curiosity and a solid foundation in physical sciences. The role involves creating an interactive learning environment, conducting experiments, and nurturing an understanding of physical concepts.. Below are the essential functions and responsibilities:

Essential Functions and Responsibilities

Curriculum Implementation:

- Develop and deliver well-structured lesson plans aligned with the middle school physics curriculum.
- Teach a range of physics topics, including mechanics, energy, electricity, magnetism, and basic principles of optics.
- Incorporate hands-on experiments, demonstrations, and multimedia resources to enhance learning.

Classroom Management:

- Establish and maintain a positive, safe, and inclusive classroom environment conducive to learning physical sciences.
- Encourage active participation, critical thinking, and scientific inquiry among students.

Instruction and Assessment:

- Employ a variety of teaching methodologies to address diverse learning styles and abilities.
- Assess students' understanding through quizzes, exams, projects, presentations, and laboratory activities.

- Provide constructive feedback to enhance students' grasp of physical concepts and scientific methods.

Laboratory Management:

- Plan and conduct laboratory experiments, ensuring safety protocols and proper use of scientific equipment.
- Guide students in the collection, analysis, and interpretation of physical data.

Integration of Technology:

- Incorporate technology tools and resources to enhance physics instruction and engage students in interactive learning experiences.
- Foster digital literacy skills by integrating relevant software and online resources.

Student Support:

- Offer additional support and guidance to students requiring assistance in understanding physical concepts.
- Collaborate with colleagues, parents, and support staff to address individual student needs and concerns.

Professional Development:

- Engage in continuous professional development activities to stay updated on advancements in physics education and teaching methodologies.
- Participate in workshops, seminars, and conferences related to middle school science education.

Parental Communication:

- Communicate regularly with parents or guardians to discuss student progress, academic achievements, and areas for improvement.
- Conduct parent-teacher conferences to provide detailed insights into each student's scientific development.

Term of Employment: One - Year Contract renewable yearly by written notice and mutual agreement.

Evaluation Method

The Middle School Physics teacher shall teach the Physics 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 Middle School Physics teacher's contribution to the overall function of the school include: *Student Academic Performance (Assessment Scores: Measure student achievement in physics through exams, quizzes, projects, and assessments, comparing results against established benchmarks or previous performance. Laboratory Performance: Evaluate students' ability to apply theoretical concepts in practical settings through laboratory experiments). Classroom Engagement and Participation (Active Participation: Assess student engagement, participation, and interest in physics classes, discussions, laboratory activities, or scientific projects. Scientific Inquiry: Evaluate students' curiosity and willingness to explore physical concepts beyond the curriculum). Teaching Effectiveness (Lesson Planning and Delivery: Evaluate the quality and effectiveness of lesson*

plans, teaching methods, and materials used by the teacher to convey physics concepts. Student Progress Tracking: Monitor individual student progress and adapt teaching strategies to cater to different learning styles). Laboratory Management (Safety Protocols: Ensure adherence to safety protocols during laboratory experiments and assess the teacher's ability to manage a safe and productive laboratory environment. Experimental Design: Evaluate students' understanding of experimental design and their ability to conduct and analyze physics experiments). Integration of Technology (Use of Technology: Assess the integration of technology tools and resources to enhance physics instruction and engage students in interactive learning experiences. Digital Literacy: Evaluate students' proficiency in using technology for physics-related activities and assessments). Student Support (Providing Feedback: Measure the teacher's effectiveness in providing constructive feedback to students to enhance their understanding of physical concepts. Support to Students: Evaluate the teacher's availability and responsiveness in offering guidance and support to students requiring extra help in physics studies). Professional Development and Collaboration (Continued Education: Monitor the teacher's engagement in professional development activities, workshops, or courses related to physics education. Collaboration with Colleagues: Assess the teacher's collaboration with other educators to improve physics teaching methods and curriculum development). Parental Communication (Communication with Parents/Guardians: Evaluate the teacher's communication with parents or guardians regarding student progress, challenges, and achievements in physics studies. Parental Engagement: Monitor parent-teacher conferences, communication frequency, and feedback from parents regarding the teacher's involvement in their child's physics education).

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 Middle School Physics Teacher. The specific requirements and expectations may vary depending on the school's needs, and the scope of its teaching and learning efforts.