

CARDIFF SCHOOL DISTRICT
STEAM Teacher
(Science, Technology, Engineering, Arts, and Mathematics)

DEFINITION:

To improve student achievement by planning, developing and evaluating an effective STEAM program for K-6 students that supports the Common Core State Standards, Next Generation Science Standards, and International Society for Technology in Education Standards, utilizing effective research-based instructional strategies and developing curriculum and assessments.

TYPICAL DUTIES:

- Plan, communicate, and carry out effective instruction to maximize hands-on, project-based science, technology, engineering, art, and math lessons to maximize learning for all students
- Engage and support all students in learning by using a variety of instructional strategies and resources to respond to students' diverse needs and by engaging students in problem-solving, critical thinking, innovative design, and computational thinking
- Create and maintain an effective maker space/lab environment for learning that integrates technology, including opportunities for coding and robotics, engages students in purposeful learning activities, and encourages collaborative interactions among students
- Establish and maintain standards for student behavior, managing routines, transactions and instructional time effectively
- Demonstrate knowledge of subject matter content and student development by organizing curriculum to maximize student understanding
- Plan, monitor, and adjust instruction and design inquiry-based learning experiences for all students that incorporate Common Core State Standards, Next Generation Science Standards, and International Society for Technology in Education Standards, and include a repertoire of instructional strategies
- Define student learning outcomes and communicate and exchange learning goals with students, classroom teachers, and families to improve academic progress; develop as a professional educator by reflecting on the teaching practice, plan professional development opportunities for staff, promote STEAM-related activities during the school day and evening, and pursue opportunities to grow professionally
- Demonstrate the mental and physical capabilities necessary to assume the responsibilities of independently teaching a classroom of students
- Possess and utilize strong organizational skills
- Collaborate and communicate with grade level teams to ensure cohesive instructional planning, perform school-related responsibilities

- Perform all other obligations mandated by laws or Board policy
- Other reasonable and appropriate tasks assigned by the Administrator

EMPLOYMENT STANDARDS:

KNOWLEDGE OF:

- Educational expectations based on the Common Core State Standards, the Next Generation Science Standards, and the International Society for Technology in Education Standards; 21st Century learning skills
- Best practices in science instruction
- Project-based learning
- Research current trends related to student achievement differentiated instruction and research-based instructional practices that promote effective learning environments
- Best practices of and applications of technology to teaching, learning, and assessment
- Health and safety practices (CPR/First Aid, etc.)

ABILITY TO:

- Relate well to pupils, parents, other teachers, and school administrators
- Show mature judgment
- Provide an educational program for students
- Assist where required in other school programs
- Maintain classroom control
- Preserve suitable learning conditions
- Analyze individual and group projects to evaluate student progress
- Be sensitive to the needs of children and parents of different ethnic, culture, educational, and economic backgrounds, and treat each child with dignity and respect.

EDUCATION AND EXPERIENCE:

Valid California Multiple Subject Teaching Credential
Experience with STEAM Education preferred
CLAD or equivalent

PHYSICAL DEMANDS:

While performing the duties of this job, the employee is regularly required to sit; use hands to finger, handle, or feel objects, tools or controls; speak; and listen. The employee frequently is required to walk; reach with hands and arms; climb or balance; and stoop, kneel, crouch or crawl. The employee is occasionally required to stand. The employee must occasionally lift and/or move up to 25 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth

perception, and the ability to adjust focus.

WORK ENVIRONMENT:

The noise level in the work environment is usually moderate. Exposure to climatic elements; intermittent noise; frequent interruptions; potential for contact with blood-borne pathogens and communicable diseases.