

TITLE: STEAM Integrator and Maker Space Educator (2020-21 school year)

REPORTS TO: General Studies Director

FLSA STATUS: Exempt

JOB SUMMARY: The STEAM Integrator and Maker Space Educator is responsible for designing and teaching K-8 integrated STEAM and Maker curriculum and classes. This includes a Maker Workshop exploratory classes for middle school students as well as varied and Project-Based Learning experiences created and taught in collaboration with General Studies and Jewish/Hebrew Studies teachers in lower school and middle school. The ideal candidate will also have the background and ability to teach one section of middle school science, but those candidates without this experience are still strongly encouraged to apply.

ESSENTIAL RESPONSIBILITIES AND DUTIES:

Design and Teach STEAM and Maker Curriculum

- Facilitate maker projects and making opportunities for all students K-8
- Teach a middle school makerspace exploratory
- Create and teach stand-alone maker curriculum
- Create and teach integrated maker and STEAM curriculum
- Map curriculum and projects to develop school-wide scope and sequence
- Integrate science, engineering, design thinking and generalized STEAM concepts into lower school curriculum
- Teach tool safety for a range of tools from hand tools to laser cutters

Manage K-8 Makerspace

- Maintain guiding principles and best practices for the space and teacher collaborations
- Prototype and iterate arrangements of the space, materials and tools to meet student needs
- Efficiently manage scheduling, budget, materials, and tools
- Manage the culture of the makerspace as a hub of collaboration, creativity, belonging, and student choice and voice

Professional Development & Community Engagement

- Provide opportunities for teachers to learn new tools
- Facilitate collaboration between various subject area teachers
- Provide instructional support and tool/space access for special projects
- Engage students, teachers, and parents in maker culture
- Model 21st century teaching skills
- Pursue professional development opportunities around curriculum integration, instruction, and maker tools and culture

- Model curiosity, collaboration, and growth mindset

QUALIFICATIONS: Candidates may bring any combination of experience and training that demonstrates the ability to perform the duties of the position. This would typically include:

- Bachelor's degree in education or a related field
- Candidate with science background able to teach a section of middle school science preferred but not required
- Three years' professional teaching experience is preferred
- Knowledge of instructional methods and resources applicable to the assigned area of instruction
- Effective written and oral communication skills
- Ability to work collaboratively with other staff, parents/guardians, and students
- Ability to follow school policies and procedures
- Ability to maintain appropriate work habits including regular and punctual attendance and appropriate use of conference and planning time
- Ability to attend to students for extended periods of time in a variety of settings

PHYSICAL REQUIREMENTS OF THE POSITION: Work is performed in classrooms and other school-related areas including playgrounds, auditoriums, and field trips that may be noisy, and may also require the ability to stand for extended periods, sometimes in inclement weather. Work requires the ability to attend to students for extended periods. Work requires vision and hearing within normal ranges. Work requires dexterity to effectively operate a computer. Work requires movement ability to keep children out of harm's way which may include walking, running, reaching, grasping, bending, stooping, lifting and carrying (0-20 lbs frequently and up to 50 pounds occasionally).

PJA IS AN EQUAL OPPORTUNITY EMPLOYER