

# STEAM ENRICHMENT in RSU1

[STEAM = Science, Technology, Engineering, Art, and Math]

Board Workshop  
October 28, 2019  
6:30 pm

# Group Norm Setting

To ensure a productive discussion, the School Board would like to establish norms for this workshop and all future workshops.

1. All are encouraged to participate.
2. All ideas should be respected.
3. All information discussed will be shared and followed up on at a later date.
4. All comments should be focused on the proposed topic.
5. All should speak one at a time.

# Purpose of the Workshop

- 1) To provide feedback and ideas on programming and initiatives.
- 2) To increase conversation amongst the RSU 1 community about our schools.

# High School Opportunities for STEAM Enrichment

- Science electives: Marine Science, Computer Science, Vertebrate Zoology, Forensics,
- Art Electives: Ceramics, 2-D, 3-D, Photo
- AP-level classes in Art, Math, Science, Capstone
- STEAM Academy and diploma
- 9-10 MELMAC Summer Bridge Program
- Engineering, & Architectural Design CTE Program
- Clubs: Makerspace Club, Green Club, Ocean Bowl, Math team
- High level of access to CTE programs
- Graphic Design “Live Work” opportunities for Maine Maritime Museum and other community partners

# Middle School Opportunities for STEAM Enrichment

- LEGO Robotics
- Makerspace
- FLOW
- Ecology School
- Chewonki Science Camp
- Discovery Boat Building Program at  
Maine Maritime Museum
- KELT: Invasive Species study, Sea Level  
Rise
- Maine Maritime Museum: Artifact  
Analysis, Fishing Technology, Evolution of  
Cod Fishery, Historic Fishing Vessel
- Math Teams
- Expedition Work

# Elementary Opportunities for STEAM Enrichment

School	Community
<p><b>Standards:</b> Alignment to NGSS, Common Core Math, MLR Art</p> <p><b>Learning Opportunities:</b> Beebots, 3D printers, LEGO Robotics, Mystery Science, Go2Science, Outdoor Classroom, all students take art and music weekly, concerts and art shows at schools, Odyssey of the Mind, Math Team, Garden Club, Hip Hop Dance, Raising Butterflies, Hatching Chickens</p>	<p><b>Field Trips:</b> Maine Maritime, Sewall Woods, LOCAL Garden, the Ocean</p> <p><b>School Programs:</b> Portland Players</p> <p><b>Partnerships:</b> KELT, Phippsburg Land Trust, Chewonki, Maine Maritime Museum, Gulf of Maine Research Institute</p> <p><b>PTA Involvement:</b> STEAM Night, Makers' Fair</p>

# Clarifying Questions

Before we get into groups, what questions do you have about the specific STEAM opportunities presented tonight?

# Discussion in 4 Small Groups

## Guiding Questions:

- What positive feedback does your group have regarding the K-12 STEAM opportunities provided for students? What areas for growth does your group see in our current offerings?
- What ideas does your group have around further opportunities or partnerships RSU 1 can consider for STEAM enrichment?



# Group Share

Each group will have the opportunity to share highlights from their discussion.

# Closing and Next Steps

- Thank you! We appreciate the feedback and ideas.
- We'll circle back to some of these ideas at a later Board Meeting.