THE PUBLIC SCHOOLS OF BROOKLINE
BROOKLINE, MASSACHUSETTS 02445

LINUS J. GUILLORY JR., PhD
SUPERINTENDENT OF SCHOOLS

SUSAN K. GIVENS, Ed.D.
DEPUTY SUPERINTENDENT FOR ADMINISTRATION AND FINANCE

Request for Grant Acceptance January 9, 2025

Motion: School Committee Accepts the grant award as determined by the awarding authority for the grants listed below:

Source	Grant/Point Person/Purpose	Award	Account Number/ Name
National Marine Sanctuary Foundation	**NOAA Ocean Odyssey Grant** Point Person: Victoria Cavanaugh The objective of the Ocean Exploration Awards for Diversity, Equity, Inclusion, Justice, and Accessibility (DEIJA) is to further DEIJA initiatives that increase inclusion in and/or access to STEM education and workforce development opportunities for diverse youth in middle school, high school, undergraduate, and/or community college to learn about ocean science and/or exploration. Strategic Plan Goal 1: Increase achievement for all students by establishing, implementing, and regularly assessing a consistent, high quality, and challenging curriculum delivered using evidence based practices	$10,000.00 Application Amount $9,821.00 Award Amount	TBD
DESE	**Multilingual Homeless Newcomer Grant Opportunity 0348** Point Person: Mindy Paulo/ Gabe McCormick The Public Schools of Brookline intends to use these funds to provide targeted academic support for eligible students. Our plan is to establish an academic center at the one shelter in the district which will be led by an academic tutor who will provide personalized instruction and support to multilingual newcomer students in various subjects. According to the data we have	$12,500.00 Application and Award Amount	TBD

	collected, many of the students currently residing at the shelter do not have access to academic support and/or resources after school. This has greatly impacted their ability to practice what they have learned and stay on top of their assignments. The academic tutor will focus on helping students understand specific topics or concepts in subjects that are difficult for English learners to access. In addition to developing subject mastery, students will also learn effective study strategies and organizational skills to improve their academic performance as well as receive support with their homework assignments and projects to further enhance their understanding of the material. We believe after school academic tutoring for this particular population of students provides them with personalized academic assistance that will increase their ability to access the curriculum they are learning. The academic center will have a consistent operating schedule to create a stable routine and learning environment for students. Our tutors will be carefully selected to not only provide academic support, but also mentorship and guidance for this vulnerable population. They can help connect students with additional resources such as community support programs. Our hope is that this additional academic support will boost students' confidence and motivation which in turn, will mean they are better prepared for and engaged in class each day. We will work closely with our tutors to provide a tailored approach that meets the unique needs of each student. Goal 1: Teaching & Learning Increase achievement for students by establishing, implementing, and regularly assessing an equitable cohesive, culturally relevant, consistent standards-based curriculum in ELA, Math, Science, Social Studies and World Language delivered using evidence-based, culturally responsive instruction.		

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Content Knowledge	Deepening students' understanding of ocean science: Through a month-long STEM unit focused on having students build, develop, and test a underwater ROV to respond to a climate action/life below water problem, students will gain a strong understanding of ocean science (particularly focused invasive species and/or how pollution/debris impacts our ocean). Through a field trip to an ocean site, students will gain hands-on, real-world exposure to ocean science thanks to local experts and guides	06/20/2025
Career Awareness	Increasing students' awareness of ocean careers: By learning about how underwater ROVs are used in the real world by scientists and ocean explorers to help solve the needs of industry, improve the environment, aide in marine archeology, support commerce, and serve in scientific exploration, data collection, and discovery, students will be exposed to a wide variety of ocean-related careers.	06/20/2025
STEM Skills	Developing STEM skills applicable to ocean science and exploration: All 7th graders will receive hands-on learning opportunities and gain skills in designing, building, and testing underwater ROVS, which directly allows students extensive practice in STEM skills applicable to ocean science and exploration.	06/20/2025

Budget

Budget Category	Expense Description	Total Request Year 1	Total Project Cost	Total Amount Requested

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Personnel	50 hours of Unit A (teacher) time to be paid at the Brookline Public Schools contracted hourly rate of $36.87. These hours would provide 40 hours of pay for teachers to run ocean-related enrichment activities such as underwater robotics clubs outside of school hours (up to 30 hours) during the spring of 2025 and up to 20 hours of paid planning time to prepare and develop a cross-curricular STEM and data units and set up the extensive robotics build for 86 students at the district workshop rate. The created unit and materials can then be shared with other teachers in the district to reach more students.	$1,844	$0	$1,844
Fringe Benefits		$0	$0	$0

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Travel	1 hotel night for PD @ $171 (based on US GSA suggested hotel per diem rate) for educator FIRST professional development 260 miles @ US gov mileage reimbursement rate of $0.67= $174.20 + $4 in tolls for educator travel to MATE competition (at Mass Maritime) and to FIRST Robotics training (Portsmouth) = $178.20	$349	$0	$349
Equipment		$0	$0	$0
Supplies	Pufferfish ROV Kit from SEAMATE Store $290*2 = $580 Pufferfish Soldering Practice Board $8 * 5 kits = $40 Pufferfish Components Grab Bag $20 * 2 kits = $40 Angelfish ROV Kit from SEAMATE Store $220*5=$1100 Angelfish Refresh Kit from SEAMATE $23*3=$69 Pufferfish Two Video System Kit from SEAMATE = $180 Portable and Connected Power Systems to Power ROVs and Spare Fuses = $200* Soldering Equipment (Soldering Iron, Soldering Station, Solder Suck, Soldering Material, Heat Solder) for ROVs = $250* Tools for ROVs (ie Wirecutters,	$3,553	$0	$3,553

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	Crimpers, Drills, PVC cutters) = $250* *items in these general categories of tools, soldering equipment and power systems will be purchased via Amazon, Home Depot, and/or Lowes and pricing is dynamic, so the budget in these categories represent a maximum range for each First Robotics Submerged Ocean Challenge Lego Kit $95 First Robotics Lego education Spike Prime Kit $540 *items in these general categories			
Contract		$0	$0	$0
Construction		$0	$0	$0
Other	MATE Competition Fees $75 for 1 Scout Team and $150 for 1 Navigator Team = $225 Field Trip expenses for 86 students + 14 chaperones at $30/person *100 people = $3000 FIRST Robotics Submerged Ocean Team Registration $250 FIRST Robotics Teacher Training $600	$4,075	$0	$4,075
Indirect/Overhead		$0	$0	$0
Total		**$9,821**	**$0**	**$9,821**

Describe how the expenses itemized above support the project objectives and desired outcomes.

Personnel: 50 hours of Unit A (teacher) time to be paid at the Brookline Public Schools contracted hourly rate of $36.87. These hours would provide 40 hours of pay for teachers to run ocean-related enrichment activities such as underwater robotics clubs outside of school hours (up to 30 hours) during the spring of 2025 and up to 20 hours of paid planning time to prepare and develop a cross-curricular STEM and data units and set up the extensive robotics build for 86 students at the district workshop rate. The created unit and materials can then be shared with other teachers in the district to reach more students. This funding is critical to allowing teachers

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dedicated time and space to create high-quality materials and systems, recognizing the substantial lift the implementation of this project will represent and acknowledging that it is not practical for teachers to take on these tasks within the confines of the existing school day. That said, the creation of these materials will benefit students for years to come and allow the program to be sustainable by investing in time for organization and the development of systems (scheduling, implementing, coordinating materials) from the very beginning.

Travel: These funds will cover one teacher to attend the FIRST robotics training in Portsmouth, NH. Funds will cover mileage and one hotel night for the two day training. Attending the in-person version of this training will not only provide the teacher with a strong knowledge base from which to launch the afterschool STEM enrichment/ocean robotics club, but also allow the teacher to network and collaborate with other teachers in the region, leading to future learning opportunities and strengthening community connections. Additionally, the fact that the training is located in Portsmouth - a rich hub of maritime history and ocean exploration - will allow the teacher to take advantage of place-based learning and visit other area sites before/after the ocean robotics training to further supplement potential programing and curriculum.

Supplies: These funds will be used to buy two, higher-level Pufferfish kits from SEAMATE, extending the depth of the STEM unit launched last year. With these higher-level Pufferfish kits, students looking for challenge can learn ocean science and exploration skills such as coding, soldering, and data logging by developing and adding sensors and videos to ROVs. The funds will also allow the school to purchase important tools students need for building both the Pufferfish and Angelfish ROV. While our school has a makerspace, there are virtually no tools for building and we have only a small collection of tools from last year's initial project. By acquiring more wirecutters, PVC cutters, drills, heat guns, hot solder irons, etc., more students can simultaneously be involved in hands-on learning making it more practical to implement during regularly scheduled math and science classes. The school is also including the purchase of a few individual Angelfish kits to supplement the kits we will be reusing from last year. When pricing the parts of a few needed replacements to reuse some of last year's kits (ie propellers, tether management system, power cord), the school realized it was cheaper to buy four new kits than all of the needed replacement parts since the SEAMATE store sells the complete kit at a discount compared to independent parts. The school will dis-assemble the four new kits, and use the needed new parts to replenish parts in the 21 Angelfish kits the school received last year. This will allow nearly 90 students to participate in building ROVs during this school year (and similar groups of students in future years). Finally, the Lego materials and kits will allow middle school students in 6th and 8th grade who would like to explore ocean sciences and STEM content to do so through building a robot for the FIRST Lego League's "Submerged" ocean exploration challenge.

Other: These funds will be used to cover student participation in regional competitions such as MATE's ROV challenges (focused on ocean science and exploration) and the aforementioned FIRST Lego Submerged Competitions. Participating in these competitions will allow middle schoolers from our school to work as a team, to meet peers and experts working on ocean science and exploration, and broaden their exposure to future ocean career possibilities. Importantly, these funds will ensure that ANY student, regardless of socio-economic background, can participate at no cost in the program. This is important in keeping with our school's diversity, equity, and inclusion goals.

The funds will also be used to enable us to launch place-based studies by covering transportation and field trip fees for the entire 7th grade student body (86 students + 14 educator chaperones) to visit either the Boston Harbor Islands and/or Stellwagen Bank National Marine Sanctuary to meet with ocean science and exploration experts, to witness firsthand the natural environment, related environmental challenges, and work currently being done to make progress on SDG 13 Climate Action and 14 Life Below Water. The goal of these trips is for students to test their ROVs in the ocean and to also participate in a stewardship initiative onsite (ie collecting marine debris or other volunteer effort) as part of the trip. At the same time, the funds will allow the school to bring in at least one local expert to talk with students about ocean science, ocean exploration, and related ocean careers.

Budget

Brookline (0046) Public School District - FY 2025 - FC 0348 Multilingual Newcomer and Homeless Support Grant (State/TAR) - Rev 0 - FC 0348 Multilingual Newcomer and Homeless Support Grant (State/TAR)

Indirect Cost	
Total Contributing to Indirect Cost	$12,500.00
Indirect Cost Rate	2.47%
Maximum Allowed for Indirect Cost	$301.30

Object Code	Total
01NM - Professional Salaries (Non-MTRS)	$12,283.20
02 - Clerical Salaries	$0.00
03 - Other Salaries	$0.00
04C - Contracted Services	$0.00
04MC - Contracted Services (major)	$0.00
05 - Supplies and Materials	$216.80
06 - Other Expenses	$0.00
07 - Equipment	$0.00
08 - Indirect Costs	$0.00
Total	$12,500.00
Allocation	$12,500.00
Remaining	$0.00

Budget Detail

Brookline (0046) Public School District - FY 2025 - FC 0348 Multilingual Newcomer and Homeless Support Grant (State/TAR) - Rev 0 - FC 0348 Multilingual Newcomer and Homeless Support Grant (State/TAR)

01NM - Professional Salaries (Non-MTRS) - $12,283.20

Budget Detail		Narrative Description
Object Code:	01NM - Professional Salaries (Non-MTRS)	Compensation for tutors to provide personalized instruction and support. $42.65 per hour, per tutor. 144 hours per tutor (6 hours a week over the course of 24 weeks in the school year from December- June) 42.65 x 2 tutors x 144 hours = $12,283.20
Function Code:	SERV - Pupil Services	
ISA Object Class LIst:		
Location Code:	Brookline (0046)	
Quantity:	2.00	
Cost:	$6,141.60	
Line Item Total:	$12,283.20	
Item Key	102050	

Total for 01NM - Professional Salaries (Non-MTRS):	$12,283.20
Total for all other Object Codes:	$216.80
Total for all Object Codes:	$12,500.00
Allocation:	$12,500.00
Remaining:	$0.00

Budget Detail

Brookline (0046) Public School District - FY 2025 - FC 0348 Multilingual Newcomer and Homeless Support Grant (State/TAR) - Rev 0 - FC 0348 Multilingual Newcomer and Homeless Support Grant (State/TAR)

05 - Supplies and Materials - $216.80

Budget Detail		Narrative Description
Object Code:	05 - Supplies and Materials	Funds used for a portable cart(s) with whiteboard(s) to use for lessons and storing materials.
Function Code:	MATL - Instructional Materials and Technology	
ISA Object Class LIst:		
Location Code:	Brookline (0046)	
Quantity:	1.00	
Cost:	$216.80	
Line Item Total:	$216.80	
Item Key	102052	

Total for 05 - Supplies and Materials:	$216.80
Total for all other Object Codes:	$12,283.20
Total for all Object Codes:	$12,500.00
Allocation:	$12,500.00
Remaining:	$0.00