

Santa Rosa County School Board



Regular Meeting
Second and/or Fourth
Thursday of each month

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Tim S. Wyrosdick
Superintendent

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MEMORANDUM

DATE: September 16, 2015

TO: Tim Wyrosdick
Superintendent
Santa Rosa County District Schools

FROM: Bill Emerson
Assistant Superintendent

SUBJECT: Summer STEAM Camps for 5th and 8th Grade students

This memorandum is to provide a cost estimate for implementing a STEAM summer camp program for 5th grade and 8th grade students in the Santa Rosa County School District. The STEAM camps would serve 150 students each and take place in Gulf Breeze, Navarre, Pace, and Milton. The camp would last for 1 week with attendance from 8 am to 12 noon each day with a snack served in the middle of the day. The camp pose a dynamic problem for students to solve in teams and would allow them to make a hypothesis, conduct scientific testing, record and analyze data, and then draw and summarize their conclusions each day. The camps would utilize kits of small demo satellites that provide students with the opportunity to test a variety of environmental characteristics, such as acceleration, luminosity, and temperature, with real time analysis of feedback data. The kits also include the opportunity to use a real satellite in space to conduct research similar to what they do with the demo satellites. I can provide some video of sample activities for your review.

The student attendees would be nominated by their respective schools to attend the camp at no charge to the student. Each attendee would receive a certificate and a t-shirt to commemorate their participation. The experiences will be designed to foster excitement in STEAM related fields of study. The camps will be staffed from our existing instructional personnel and will be under the supervision of our Math and Science Coordinator, Jeff Baugus.

To continue the excitement generated by the summer camps, we would like to purchase one of the demo satellite kits for each school in our district and provide professional development for teachers on how to use the kits to help build STEAM in our schools.

I have prepared a detailed cost estimate on what it will cost to hold four 5th grade camps and four 8th grade camps in the summer of 2016. In addition, I have included the estimated cost to equip every school with one satellite kit.

Cost estimate for STEAM Summer Camps

Staff Costs: for 150 students we would need 6 teachers and a lead teacher. The lead teacher might be one of our Teacher on Special Assignment teachers or a curriculum coordinator. The lead teacher would be paid 20 camp hours and 10 hours of prep time for a total of 30 hours. Each teacher would be paid for 20 hours of actual camp time and 5 hours of prep time for a total of 25 hours. I will use the figure of \$35 per hour which includes benefits.

Lead Teacher	1 for 30 hours @ 35.00	1,050.00
Teacher	6 for 25 hours @ 35.00	<u>5,250.00</u>
Total for 1 camp		6,300.00

Satellite Kits: The demo satellite kits will cost \$2000.00 each with an accompanying software cost of \$2500.00. Each kit would come with 11 total kits for student use. Each camp would need 3 kits. If we run the 5th grade and 8th grade camps at the same time, we would need 6 kits.

Satellite Kits	3 @ 2000.00 each	6,000.00
Experimentation Software	3 @ 2500.00 each	<u>7,500.00</u>
		13,500.00

Supplies: For each camp we would need snacks, T-shirts, certificates and other printing and paper supplies. I will make an estimate for these costs as well.

T-shirts	10.00 for 150 students	1,500.00
Snacks	3.00 for 150 students for 5 days	2,250.00
Certificates	.50 for 150 students	75.00
Misc. Materials	5.00 for 150 students	<u>750.00</u>
		4,575.00

Custodial, Bussing, Food Services: Ask for donated services

STEAM Camp Total Estimated Cost	\$24,375.00
Each Additional Camp Estimated Cost	\$10,875.00

Option 1: 4 camps at each grade:

5 th Grade	Camp Gulf Breeze	24,375.00 (includes first set of kits)
	Camp Milton	10,875.00
	Camp Navarre	10,875.00
	Camp Pace	<u>10,875.00</u>
		57,000.00
8 th Grade	Camp Gulf Breeze	24,375.00 (2 nd set of kits needed)
	Camp Milton	10,875.00
	Camp Navarre	10,875.00
	Camp Pace	<u>10,875.00</u>
		57,000.00

Total estimated cost of Option 1 **\$114,000.00**

Option 2: 2 camps at each grade:

5 th Grade	Camp North	24,375.00 (only 1 set of kits needed)
	Camp South	10,875.00
8 th Grade	Camp North	10,875.00
	Camp South	10,875.00

Total estimated cost of Option 2 **\$57,000.00**

Estimated cost of 1 Satellite kit per school with software **\$88,000.00**

(less cost of kits already purchased for camps) Option 1 **\$61,000.00**

(less cost of kits already purchased for camps) Option 2 **\$74,500.00**

Total estimated cost for Option 1 and school kits	\$175,000.00
Total estimated cost for Option 2 and school kits	\$131,500.00*