

ORANGE COUNTY
BOARD OF EDUCATION

AGENDA ITEM ABSTRACT

Meeting Date: July 9, 2012

AGENDA ITEM No. 12-07-09

ACTION ITEM: (Y/N) N

SUBJECT: Engineering is Elementary (EIE) Update

INFO. CONTACT: Dr. Denise Morton/Myron Wilson/Liz Day PHONE: (919) 732-8126

ATTACHMENTS: 1. EIE Project Plan

PURPOSE: To provide the Board of Education for informational purposes an update on the 2012/2013 implementation of the EIE project at Central Elementary.

BACKGROUND: On January 17, 2012, the Board of Education approved the staff recommendation to implement the EIE project at Central Elementary. A project plan is attached that provides board members the implementation timeline and what has been accomplished since January 18, 2012.

School level and district staff have worked as a team to accomplish the necessary tasks to begin the next school year ready to deliver the EIE curriculum. Several accomplishments to note are the hiring of a STEM coordinator, the delivery of the professional development in June to all teachers and teacher assistants at Central and the ordering of the EIE materials from the Boston Museum of Science.

As a result of the open registration to transfer to Central as a theme school, a total of 27 children have opted to attend Central Elementary from other elementary schools in the district. Two teaching slots have been added to accommodate the additional students.

Principal Wilson and Liz Day will provide additional information and a complete overview of the program.

FINANCIAL IMPACT: Costs to date are:

Professional development costs	\$ 17,516.22
EIE instructional and theme materials	<u>\$ 29,310.95</u>
Total	\$ 46,827.17

RECOMMENDATION: The Superintendent recommends that the Board of Education receive for information purposes the update on the 2012/2013 implementation of EIE at Central Elementary.

Engineering is Elementary (EiE) Project Plan

January 2012 – August 2012

Project Director – Dr. Denise Morton

TASK	TIMELINE	PERSON(S) RESPONSIBLE	DATE COMPLETED
Presentation of EiE theme to Board of Education	January 17, 2012	Dr. Denise Morton	1-17-12 BOE approval
Post STEM Coordinator position	January 18, 2012	Dr. Denise Morton Marcie Holland	1-20-12 posted by Human Resources
Send Alert Now message to all other K-5 parents about open registration at Central	January 31, 2012	Mike Gilbert	February 22, 2012
Central Elementary team conducts on-site visit to an EiE school	February, 2012	Myron Wilson	Completed February 8, 2012
Develop communication plan for parents	February, 2012	EiE Project Team	Brochure completed – 2/12 Parent meetings scheduled for February/March 2012
Conduct parent information meetings	February, 2012	Central EiE Project Team	February 16, 2012 February 21, 2012 March 8, 2012
Develop registration process for application (out-of-district)	February, 2012	Mike Gilbert	Opened March 1 – April 20, 2012 Completed
Conduct STEM Coordinator interviews	February, 2012	Dr. Denise Morton Myron Wilson Selected interview team members	Interviews to be conducted February 24 and 27, 2012 Completed
Establish and distribute to staff summer training dates	February, 2012	Dr. Denise Morton Myron Wilson Elizabeth Parry	June 18, 19, 20, 2012 August 16, 17, 2012
Disseminate 2012-2013 intent forms to staff	February, 2012	Marcie Holland Myron Wilson	Distributed February 6-10, 2012

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TASK	TIMELINE	PERSON(S) RESPONSIBLE	DATE COMPLETED
Meet with Nancy Shaw from Project Lead the Way at Duke University	February, 2012	Dr. Denise Morton Patricia Harris	Met with Ms. Shaw on March 26, 2012
Meet with Project Lead the Way Middle/High School Teachers about summer camp experiences	March, 2012	Dr. Denise Morton Patricia Harris	CTE Director met with PLTW teachers. PLTW teachers will work with EIE students in the fall.
Open registration process for Central	March 1 st – April 20 th	Mike Gilbert	Completed March 2, 2012
Discuss and determine the 2012-2013 staffing needs for Central	March, 2012	Marcie Holland Myron Wilson	Completed May 15, 2012
Staff STEM Coordinator position	Take recommendation to Board last meeting in March	Denise Morton Marcie Holland	Completed – candidate accepted the position on March 6, 2012 Will begin on July 2, 2012
Continue to provide parents information sessions	March, 2012	Central EIE Project Team	March 8, 2012 March 21, 2012
Purchase EIE materials for curriculum and building aesthetics	March, 2012	Denise Morton Myron Wilson	March 27, 2012 materials purchased
Close Central's open registration for EIE	April 16, 2012	Mike Gilbert	Closed April 20, 2012
Begin planning EIE summer student experiences	April, 2012	LEAP Administrator (summer program at Central)	Contacted Susan Damico, NC State for assistance
Transportation routes determined	April, 2012	George McFarley	To be determined
Pursue business/post-secondary partnerships	Ongoing	Denise Morton Patrick Rhodes	Business advisory council established will meet in the fall – the following members have been invited

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				Summit Engineering Piedmont Electric Cisco Duke Energy NC State Durham Tech PLTW Teachers Science Teachers Superintendent Secondary Director Liz Parry
Train all certified staff on EIE	June 18, 19, 20, 2012	Elizabeth Parry Myron Wilson Denise Morton Elizabeth Parry	Trained teachers and teacher assistants on June 18, 19, 20 by Liz Parry, NC State	Completed
PowerPoint of school pictures	Spring, 2012	Elizabeth Parry		Completed
Engineering standards established	Spring, 2012	Elizabeth Parry		Completed
Connect Susan Damico with Freda Hicks –Coordinator of LEAP Summer Program to explore EIE summer activities	Spring, 2012	Freda Hicks Elizabeth Parry	LEAP summer experience will have an engineering theme	Completed
EIE Materials list developed	Spring, 2012	Elizabeth Parry		Completed
Investigate professional development video	Spring, 2012	Elizabeth Parry		Not complete
Confirm August days for teachers for continued training	August 16 and 17, 2012	Elizabeth Parry		Completed
February 16 activity for parents/students	February 16, 2012	Elizabeth Parry		Completed
Math night kit combined with EIE activities	Spring, 2012	Elizabeth Parry		Completed
EIE Brochure – translation is in process	March, 2012	Cindi Chamberlain		Completed

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Website redesign for Central Elementary	February, 2012	Cindi Chamberlain		Completed
Plan community open house for EIE	August 16, 2012	Mike Gilbert Denise Morton Cindi Chamberlain		Planning in process