



# UNITED INDEPENDENT SCHOOL DISTRICT AGENDA ACTION ITEM

**TOPIC:** The Purchase of STEM Curriculum from Project Lead the Way (PLTW) for Elementary School STREAM Program

**SUBMITTED BY:** Cynthia Rodriguez, Executive Director for Elementary School Instruction

**OF:** Curriculum and Instruction Department

**APPROVED FOR TRANSMITTAL TO SCHOOL BOARD:** \_\_\_\_\_

**DATE ASSIGNED FOR BOARD CONSIDERATION:** February 21, 2018

## **Recommendation:**

To approve PLTW STEM curriculum to be used with four classes of 3<sup>rd</sup> graders at Freedom Elementary. The goal is to initiate the program at the 3<sup>rd</sup> grade level and annually add a grade level so that the program is expanded from 3<sup>rd</sup> to 5<sup>th</sup> by the school year 2020-2021.

## **Rationale:**

Over the past ten years, STEM job growth has been three times as fast as growth in non-STEM jobs. STEM jobs are expected to continue to outpace growth in non-STEM jobs over the next decade. Therefore, the need to prioritize STEM education has never been greater. It is vital that we cultivate an interest and support development efforts in STEM education in order to widen our students' career paths and increase their job opportunities in the future.

## **Budgetary Information:**

\$50,000 for STREAM teacher (classroom size reduction)

\$107,000 for lab kits, Project Lead the Way Curriculum, and Staff Development (covered by federal grant)

## **Board Policy Reference and Compliance:**

EHAB (LEGAL). A district that offers kindergarten through grade 5 must provide instruction in the required curriculum as specified in 19 Administrative Code 74.1 (relating to Essential Knowledge and Skills). A district shall ensure that sufficient time is provided for teachers to teach and students to learn English language arts, mathematics, science, social studies, fine arts, health, physical education, technology applications, and to the extent possible, languages other than English. 19 TAC 74.2

**S.T.R.E.A.M.  
Proposal  
2018-2019**

**Freedom Elementary**

# Science Technology Reading Engineering Arts and Math

## Pilot School: Freedom Elementary School

Current 3rd grade students: STREAM teacher will be hired with plans to expand to 4th and 5th grade by 2020-2021.

- First year 2018-2019: 3rd grade--campus students only
  - Second year 2019-2020 : 3rd grade (current Freedom students and one additional class through lottery) and any open slots for 4th grade through lottery
  - Third year 2020-2021 : 3rd grade (current Freedom students and one additional class through lottery) and any open slots in 4th and 5th grade through lottery.
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1. **2018-2019=80 students**
2. **2019-2020=160 students**
3. **2020-2021=240 students**
  - **\$50,000 for STREAM teacher (CSR)**
  - **Lab kits, Project Lead The Way Curriculum and Staff Development: \$ 107, 000 covered by federal grant**

Only 3rd graders will participate in STREAM in 2018-2019: The science block each day will be spent with the STREAM teacher in the engineering lab.

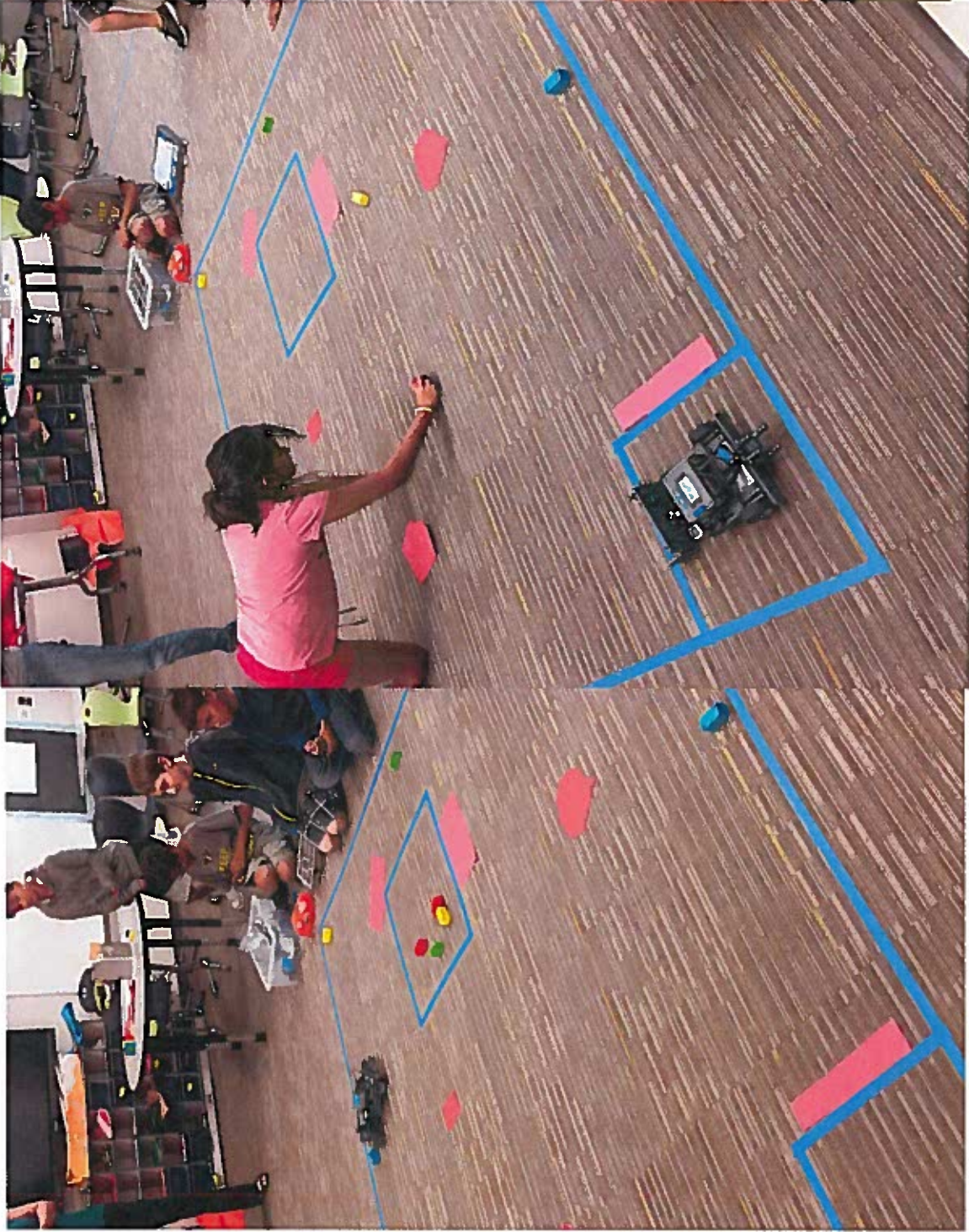
4 classes of 20 students = 80 students total following the Project Lead The Way curriculum.

This allows for all 3rd graders to participate in STREAM by rotating into the engineering lab with one STREAM teacher

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**Practice & Review Schedule**  
(10/24/2020)

**Monday - Reading Response**  
Tuesday: I-station  
Wednesday: I-station  
Thursday: Reading Response  
Friday: Student Choice

**Common Area Expectations**

- Choose a seat and stay there. Chairs will not be moved.
- Discuss your work using a soft voice when appropriate.
- Stay on task.
- Ask for help when appropriate.
- Available technology is TTM, I-station. Strategies in other teacher assigned work.
- When done to correct cart and plan to when finished working.











