

Elementary PLTW Expansion with Launch

November 8, 2018

The Raymore-Peculiar School District Strategic Plan process outlines focus areas, strategies and actions steps to follow as a means to achieve overall organizational excellence. Action Step 1.2.1: Expand Project Lead The Way (PLTW) course offerings at all grade levels was listed under Strategy 1.2: Expand STEAM (Science, Technology, Engineering, Arts, Math) opportunities for all students. The draft plan below addresses an expansion opportunity in the area of elementary PLTW.

Year 1 Implementation (Current 2018-19)

- 7 DLTs and 1 Curriculum Specialist trained in Launch Classroom Training
- 1 DLT trained in “Lead Teacher Training” with the ability to “in-house” train staff
- 8 5th grade Science teachers trained as Launch Classroom Teachers
- One 5th grade module implemented Fall 2018 “Infection Detection”
- Co-teaching between DLT and 5th grade science teacher

Year 2 Implementation (2019-20)

- Train 24 Kindergarten and 23 1st grade teachers as Launch Classroom Teachers
- Expand “Lead Teacher Training” to either 1-2 additional DLTs or “Lead Teacher” per grade level K,1,5 (Summer 2019)
- Implement two K & 1 modules*
- Implement a second 5th grade module
- Support provided by DLT to K, 1, and 5th grade teachers on a gradual release basis
- Cost Estimate \$30,000 (Supplies, Curriculum, Professional Development)

Year 3 Implementation (2020-21)

- Train 63 Grades 2-4 teachers as Launch Classroom Teachers
- Implement two modules* in each remaining grade level Gr 2-4
- Expand “Lead Teacher Training” to a “Lead Teacher” per grade level K-5 (Summer 2020)
- Cost Estimate \$60,000 (Supplies and Curriculum)

Note: Upon completion of the 3-year implementation plan drafted below, modules from all three PLTW tracks (Engineering, BioMedical, and Computer Science) are represented across the K-5 grade span. The recurring costs for elementary PLTW supplies are estimated to be \$25,000 annually.

Year 1 implementation	Year 2 implementation	Year 3 implementation
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	Engineering (4)	BioMedical (5)	Computer Science (3)
K	Pushes & Pulls (Year 2) 15 days/3 weeks		Animals and Algorithms* (Year 2) 20 days/4 weeks Co-teach with DLT and devices from cart
1	Light: Observing the Sun, Moon, and Stars (Year 2) 15 days/3 weeks	Animal Adaptations (Year 2) 15 days/3 weeks	
2	The Changing Earth (Year 3)	Materials Science: Form and Function (seed dispersal) (Year 3)	Grids and Games--via DLT lessons (optional; access devices from cart)
3		Variation of Traits (only one aligned to DESE) (Year 3)	Programming Patterns* (Year 3)
4	Stability and Motion: Forces and Interactions (save the tiger-Grade 3 module) (Year 3)	Input/Output: Human Brain (Year 3)	
5		Infection: Detection (Year 1) 15 days/3 weeks	Infection: Modeling and Simulation (Year 2) 15 days/3 wks

*Note: If the PLTW platform does not fully transition to a Chrome environment, additional iPads will be needed.