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 Proposal #091917.01

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Destiny Stream Academy Charter School for Girls

Chicago, Illinois

Overview

Pitsco Education’s STREAM solutions create environments where students are prepared for a lifetime of critical thinking, collaboration, and creative problem solving while acquiring fundamental STEAM knowledge and putting it into practice with engaging, relevant, hands-on projects. This proposal for the new Destiny STEM Academy for Girls includes grades 6-8 STEAM curriculum, environment, and supporting professional development on a scalable platform that accommodates future growth

Grade 6

An immersive STEAM lab experience dedicated to grade 6, complete with cloud-based lessons with accompanying hands-on projects. Each project includes complementary ELA and Arts lessons to ensure well-rounded instruction.

Grades 7-8

A dedicated middle school STEAM lab in which students put STEAM understanding into practice with real-world challenges that each start with an Essential Question. Through the curriculum, students explore future-oriented career paths.

Grade 6 STREAM Lab

Grades 6 students grow their STREAM knowledge and experience with cloud-delivered multimedia curriculum and hands-on projects built on NGSS and CCSS standards. The classroom environment is designed with collaboration in mind, placing students at team tables to facilitate joint problem solving and exchange of ideas. **STREAM Missions** are digitally-delivered multimedia curriculum projects with accompanying hands-on activities designed for crews of four students. Missions help students connect scientific practices, scientific content, and math concepts in a guided inquiry format. Each team member has an assigned crew role, and each Mission contains an art activity, ELA connections, and an engineering challenge. As students progress through the content, they capture their work in a Mission Journal. Assessment is rounded out with a variety of additional tools that help the teacher evaluate progress and intervene to confirm understanding.

Grade 6 STEAM Curriculum

STREAM Missions

- ◆ Adaptations & Survival
- ◆ Crime Lab
- ◆ Energy
- ◆ Engineering Structures
- ◆ Limited Resources
- ◆ Motion & Force
- ◆ Rocketry
- ◆ Scientific Discovery
- ◆ Solar System
- ◆ Technology & Design
- ◆ Under the Microscope
- ◆ Weather & Water

48 Students
Per Year

Lab Details

Class Size: 24 **Cohorts:** 2 **Scheduling:** semester-long course
Environment: Six Pitsco Education STREAM Missions workstations, 24 student chairs, teacher’s desk and chair, and four tall cabinets for storage.
Cloud-based Management System: STREAM Missions are delivered by Pitsco Education’s Synergy ITC system. Included are three years of license renewals for the management system and each title. Starting in year 4, the school is responsible for the \$199 management system license renewal, and a \$99 renewal fee for each title. This proposal includes 12 STREAM Missions titles.
Electronic Equipment: STREAM Missions requires 4:1 student computing. Included are six Dell Latitude E5550 laptops for students working in crews of four, 24 sets of Califone headphones for students, one Dell Latitude E5550 for the teacher, a laptop storage cart, and a HP LaserJet printer.
Consumables: This solution requires annual purchase of consumable materials for sustainability. This proposal includes one year of consumables.



Grades 7-8 STEM Lab

Grades 7-8 students experience Pitsco Education’s **STEM Expeditions**, vehicles for making connections between the four areas of STEM while prototyping, testing, and iterating solutions to challenges. STEM Expeditions are built on best practices in math and science, and employ the engineering design process to help students learn how to try, fail, and try again to come to a solution. Each grade is differentiated with age-appropriate and standards-focused activities that meet their specific earth, life, and physical science requirements while enabling students to practice writing, communication, and collaboration skills.



**96 Students
Per Year**

Lab Details

Class Size: 24 **Cohorts:** 2 per grade **Scheduling:** year-long course
Environment: 24 Pitsco Education Flex desks, 24 student chairs, teacher’s desk and chair, teacher mobile storage unit, and four tall cabinets for storage.
Cloud-based Management System: STEM Expeditions are delivered by Pitsco Education’s Synergy ITC system. Included are three years of license renewals for the management system and each title. Starting in year 4, the school is responsible for the \$995 management system license renewal, and a \$99 renewal fee for each title. This proposal includes 20 STEM Expeditions titles.
Electronic Equipment: STEM Expeditions requires 2:1 student computing. Included are 12 Dell Latitude E5550 laptops for students working in teams of two, 24 sets of Califone headphones for students, a laptop storage cart, one Dell Latitude E5550 for the teacher, and a HP LaserJet printer.
Consumables: This solution requires annual purchase of consumable materials for sustainability. This proposal includes one year of consumables.

Grade 7 Curriculum

STEM Expeditions

- ◆ A Closer Look
- ◆ Ahead of the Game
- ◆ Animals, Plants, & Populations
- ◆ Artificial Ecosystems
- ◆ Bio Research
- ◆ Body Blueprint
- ◆ Cultivating Our Future
- ◆ Growing Up
- ◆ Transportation Station
- ◆ Urban Wind Farm

Grade 8 Curriculum

STEM Expeditions

- ◆ Communications
- ◆ Electric Tech
- ◆ Everyday Electricity
- ◆ Flight Dynamics
- ◆ Get A Grip
- ◆ Optical Solutions
- ◆ Projecting Light
- ◆ Safe Food
- ◆ Theme Park Physics
- ◆ Thermal Physics

Professional Services

Services are part of the entire relationship between the school and Pitsco Education, beginning with the initial custom program design phase of the program and continue through program implementation at the school with a full complement of services.

- ◆ **Comprehensive installation and technical support** by teams of Pitsco Education professionals ensures classrooms are ready for students, and includes furniture assembly and placement, computer set-up, software installation, and unpacking/organizing of consumable supplies and equipment into storage bins and cabinets. Tech support is a call, chat, or email away post-installation.
- ◆ **On-Site professional development** is focused on implementation strategies for STREAM Missions and STEM Expeditions. Grade 6 teachers will spend a day with a dedicated Pitsco Education facilitator exploring and practicing the instructional methods for STREAM Missions. Teachers in Grades 7-8 will have a day focused on STEM Expeditions.
- ◆ **Education service manager visits** are scheduled with the school at regular intervals to ensure the lab is running smoothly and teachers have the support they need. The school will receive 3 visits in year 1, 2 visits in year 2, and 1 visit in year 3.

Investment		
Grade 6 Lab	Grades 7-8 Lab	Professional Services
Curriculum: \$50,943.14	Curriculum: \$115,053.95	On-Site Professional Development: \$9,500.00
Environment: \$10,625.00	Environment: \$15,215.00	Site Visits, 3 Years: \$19,180.00
Electronic Equipment: \$13,315.00	Electronic Equipment: \$40,105.00	Services Total: \$28,680.00
Delivery & Installation: \$5,460.00	Delivery & Installation: \$13,060.00	
Grade 6 Total: \$80,343.14	Grades 7-8 Total: \$183,433.95	
Total: \$292,457.09		