BLAINE | FRIDLEY
SPRING LAKE PARK

SPRING LAKE PARK SCHOOLS

K-8 Coding/Computer Science and Online/Hybrid Learning Update

Regular Board Meeting – Tuesday, April 9, 2019

Project Updates

District Operational Plan

Tonight, we will provide an overview of the work within two of our District Operational Plan projects:

- Online and Hybrid Learning
- K-8 Coding/Computer Science

Spring Lake Park Learning Models

Online and Hybrid Learning Update

Blended Learning

Blended learning incorporates some elements of online learning into face-to-face learning. Blended learning requires the physical presence of both teacher and student, with some elements of student choice over time, place, path, or pace in the learning.

Hybrid Learning

Hybrid Learning combines face-to-face learning with online learning. In hybrid learning, 50% or more of the course is delivered online through a Learning Management System. Students in this model divide their time between attending the classroom on specific days and completing work online providing choice over time, place, path or pace in the learning.

Online Learning

Online learning is a class or course that is built and delivered fully online. Online learning can happen asynchronously or synchronously. Students in this model spend 100% of their time online with choice over time, place, path or pace in the learning.

Online and Hybrid Learning

Project Update

- Over the past two years, we have been transitioning from using GradPoint for online courses to locally-developed online courses in order to better align our online courses with the Spring Lake Park academic, career, and life skill competencies
- Professional learning modules for teachers have been created, with an emphasis on designing engaging student work and learning experiences using an online platform that leads to high levels of student learning
- In addition to the development of fully online courses, there is a need to continue the development of hybrid courses to continue to support personalized learning and creating opportunities for students to have flexibility

Online and Hybrid Courses

Project Update

2017-2018	2018-2019	2019-2020
• Hybrid College Environmental Science - Bethel • Health • Fit for Life • Foundations of Fitness	• Language Arts 10 • Language Arts 11 • Geometry • US History • World History • Economics • Government • Hybrid Biology	• Language Arts 10 Hybrid • Language Arts 12 • Geometry – Hybrid • Algebra 2/Trig Online • Pre-Calculus and AP Calculus • U.S History – Hybrid • Current Issues • Sociology - Hybrid

Online and Hybrid Learning

Next Actions

- Complete design of identified online and hybrid courses for Fall 2019 implementation
- Establish timeline for transitioning all remaining core GradPoint courses to locally developed online courses
- Complete evaluation of current online and hybrid courses to identify areas for refinement

K-8 Coding/Computer Science

Project Update

Desired results of the K-8 Coding/Computer Science project are to:

- Spark student interest in computer science fields
- Prepare students for future jobs in computer science, some of which have yet to be created
- Develop skills learned through computer science in each student, which will support them in their future regardless of career choice

K-8 Coding/Computer Science

Project Update - Looking In

- Overall, our K-8 students have been exposed to computer science, but very few have had the opportunity to participate in deep, sustained learning and exploration
- When our K-8 students have had exposure to computer science, they are highly engaged and ask for additional opportunities
- At the middle level, students may choose STEM elective courses that include some aspects of computer science, but not as the primary emphasis
- Parents see the need to provide computer science learning opportunities at an early level

K-8 Coding/Computer Science

Project Update - Looking Around

- Most metro school districts offer secondary computer science elective courses; one metro district offers computer science at the elementary level on a consistent basis
- In most K-8 schools around the area, computer science is viewed as an “event” that happens once a year, or at random occasions, based upon national initiatives (e.g., hour of code) or personal interest of the teacher

K-8 Coding/Computer Science

Project Update - Looking Out

- The state of our current and future workforce demand that all employees have skills within computer science, whether or not their job is specifically within the field
- Across the nation and locally, stakeholders support the implementation of computer science across a student's K-12 experience
- Stereotypes about who is "good" at computer science are formed early, and have long-lasting impact

K-8 Coding/Computer Science

Next Actions

- Based on the state of the current and future workforce, as well as current reality of implementation at K-12 on a local, state, and national level, there is a need to provide consistent, deep learning experiences in computer science starting with our youngest learners
- Our next action is to move into the Design space of our SLP 3D design thinking process to develop prototypes for implementation in Fall 2020

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