

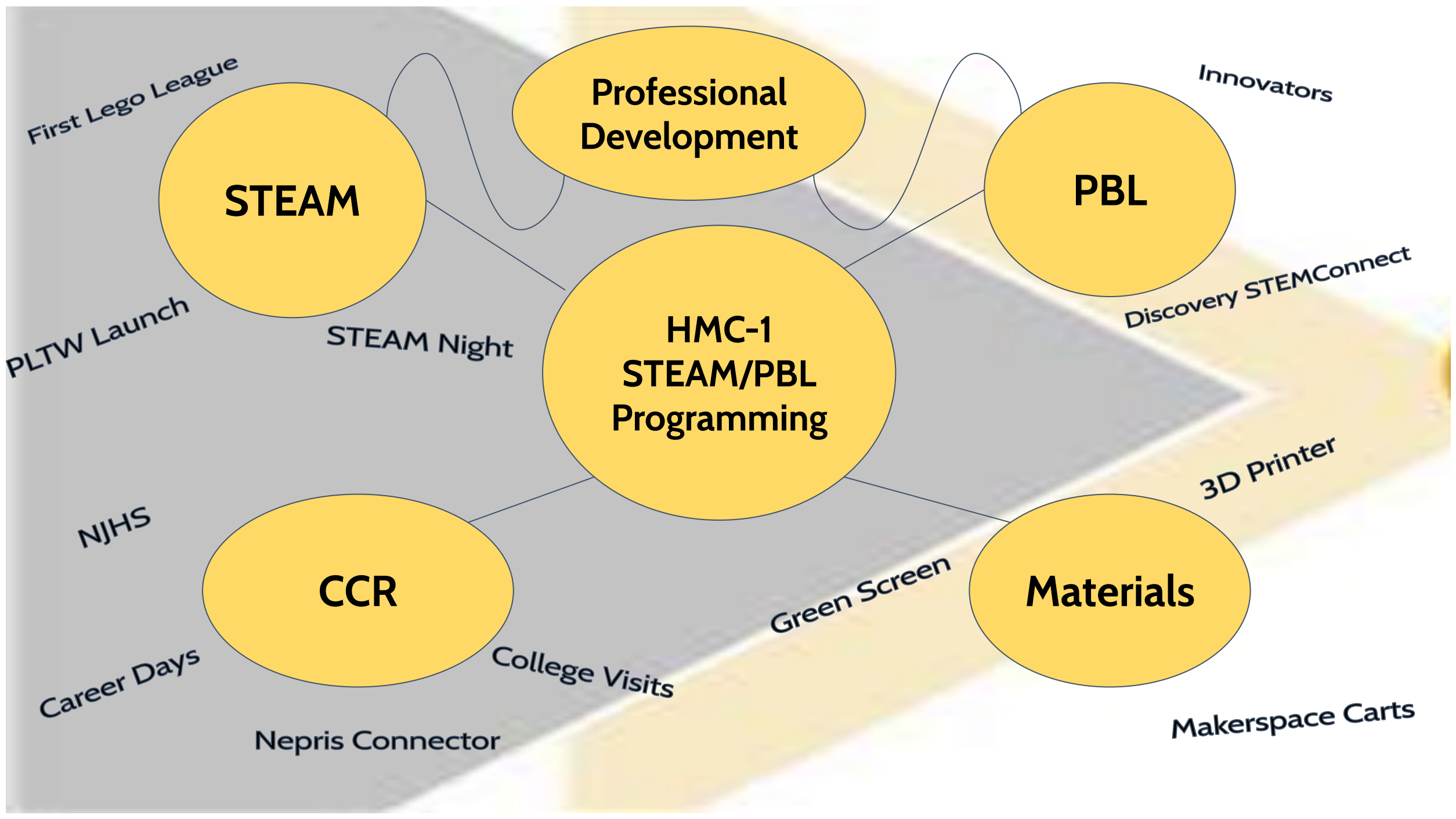


3 YEAR IMPLEMENTATION PLAN

SCHOOL CHOICE EXPANSION
STEAM & Project-Based Learning

Overview

School Choice Expansion is the expansion of STEAM and Project Based Learning opportunities from the current two schools of choice (Millennium at Santa Fe and Compass) to all schools: **Districtwide STEAM and Project Based Learning**. The following slides outline a 3 year implementation plan targeting PK-12th grade **STEAM & PBL Professional Development, Programming Resources, and College & Career Readiness**.



Professional Development

STEAM

PBL

**HMC-1
STEAM/PBL
Programming**

CCR

Materials

STEAM/PBL Professional Development

Year 1	<ul style="list-style-type: none">● Fall 2019 - PK-12 Project Based Learning PD led by Discovery Innovators (3 Modules - Aug, Oct, Dec)● Fall 2019 - PK-5 PLTW Launch Training led by Launch Lead Teachers (2 Modules - Aug)**● Fall 2019 - Implement PLTW Gateway course for all 6th Grade students● Spring 2020 - PK PLTW Launch Training led by Launch Lead Teachers● Spring 2020 - K-8 Utilize Discovery STEMConnect to implement one PBL● Spring 2020 - PK-12 Prep-KC Nepris Connector Training and PBL connections <p><i>**Grades K-5 implement 2 PLTW modules per year</i></p>
Year 2	<ul style="list-style-type: none">● PK-12 Project Based Learning PD led by Discovery Innovators (3 Modules - TBD)● PK - 5 Continued support for PLTW Launch● K-8 Implement one PBL unit in Fall 2020 and one in Spring 2021
Year 3 and Beyond	<ul style="list-style-type: none">● Ensure implementation with fidelity of efforts from Year 1 and 2● Hardwiring of practices

STEAM/PBL Resources

<p>Tier 1 Foundational Resources at All Buildings</p>	<ul style="list-style-type: none">● Green Screen and DoINK App w/ Padcaster for iPad● Makerspace Materials (Bins or Cart)● 3D Printer● Lego Mindstorm Kit● Sphero, Dash, Dot, Cue, Ozobots, Cubelets - Coding Robots● External Science Probes (temperature, etc.) for iPads for use with Google Science Journal	<ul style="list-style-type: none">● Tablet Stage Devices● Makey Makey Supplies● Little Bit Kits● Bloxels● Augmented Reality Devices● Virtual Reality Devices● Knex Kits● Vex Robotics
<p>Tier 2 Expansion of Resources and Facilities at All Buildings</p>	<ul style="list-style-type: none">● Mobile Smart Panels and Mobile Whiteboards● Mobile Furniture	
<p>Tier 3 Specialized Resources for Differentiated Enrichment and Access</p>	<ul style="list-style-type: none">● Drones● Advanced Coding Skills● Off-site Explorations● Advanced Audio Visual Integration (Adobe Photoshop and Premiere Elements)	

College & Career Readiness

Year 1	<ul style="list-style-type: none">● 4th & 5th Grade College visits● PK-8 Career Day● PK-8 STEAM Night● 3rd - 5th Grade First Lego League● 5th - 12th Grade National Elementary Honor Society, National Junior Honor Society and National Honor Society● K-12 Nepris Connector
Year 2	<ul style="list-style-type: none">● Continue CCR activities from Year 1● Expand college visits to include grades 2 and 3● K-8 College Night● K- 3rd Grade First Lego League Junior