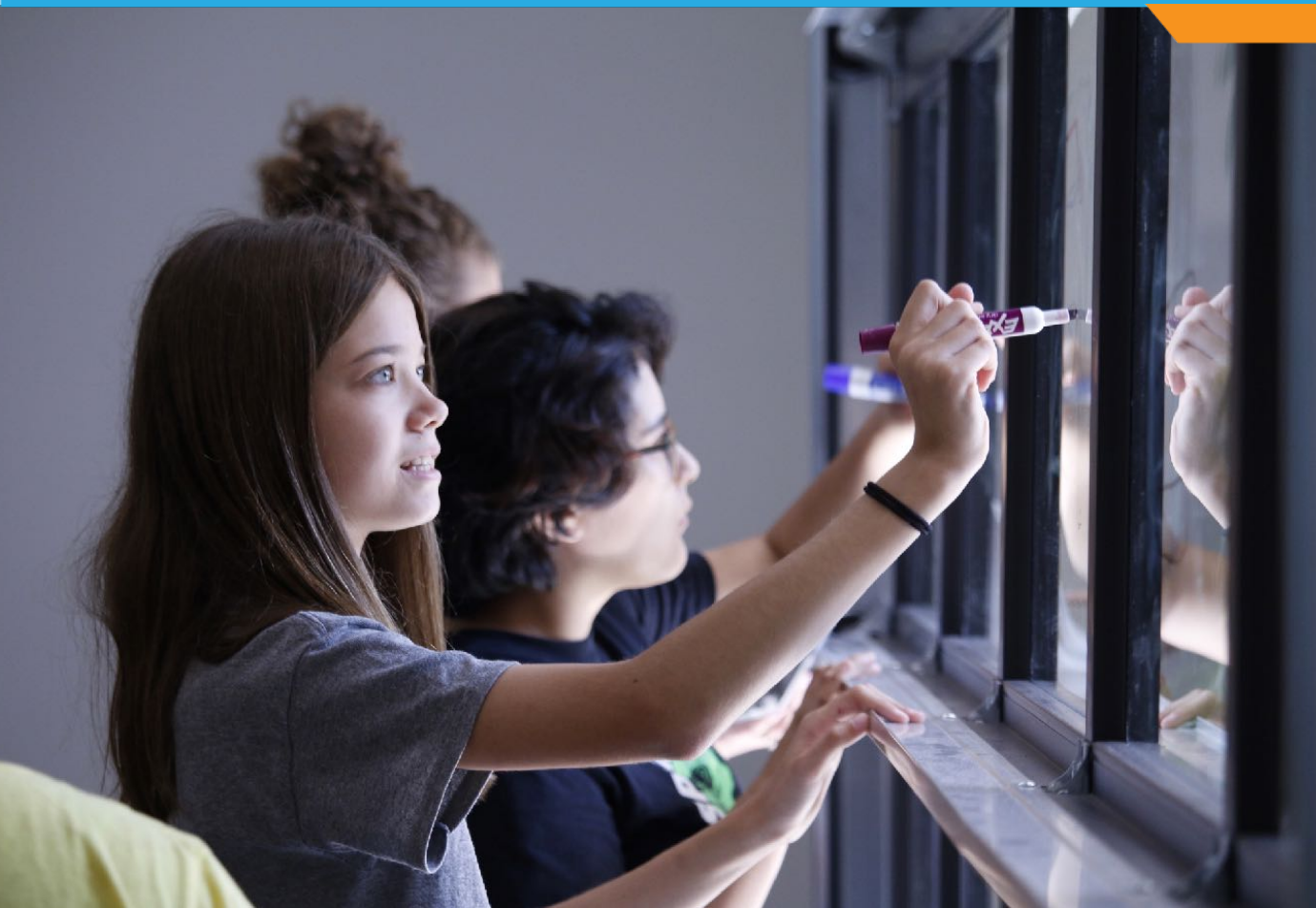


Transforming Learning



Middle and Early College Models

Alaska Joint Senate & House Education Hearing • November 13, 2018

Annalies Corbin, PhD
President & CEO

THE PAST  FOUNDATION
pastfoundation.org

PAST Innovation Lab

Why —

We are committed to creating equity and access for all youth in ways only they can envision

How —

We build avenues of access and programs that empower students and teachers to be leaders and equip them with the tools and understanding to accomplish their dreams

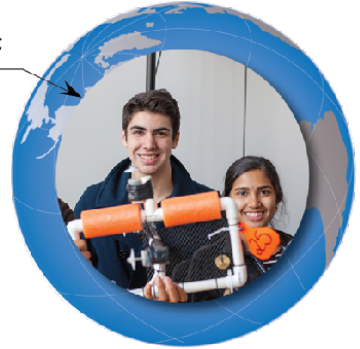
What —

We power formal and informal STEM programs with engaging, hands-on learning that create Innovators, Critical Thinkers and Collaborators



CULTURAL
STRATEGY

100%
Relevancy



INSTRUCTIONAL
STRATEGY

100%
Planning



DELIVERY
STRATEGY

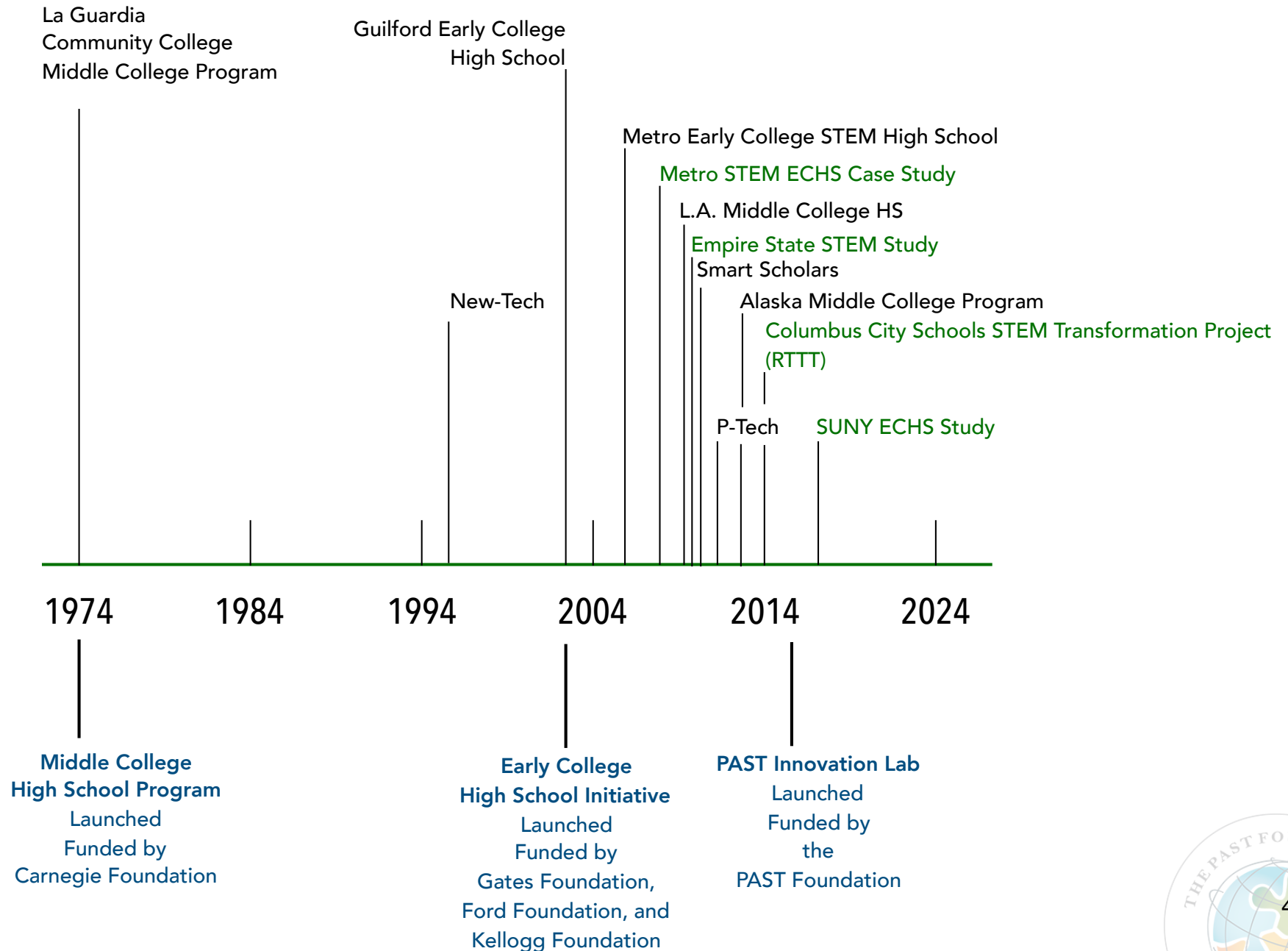
100%
Engagement



Access to Post Secondary - What Does it Really Mean?



Development of Middle - Early College Programs



Model: Middle College Schools

1974 Launch

- High Schools grade 11-13 and also enrolled part time in classes at a partner post secondary institution;
- Secondary schools, authorized to grant diplomas in their own name;
- Located on college campuses across the nation;
- Small student populations focusing on historically underserved and underrepresented in college;
- No cost college access working towards earning an Associates degree.

Model: Early College Schools

2002 Launch

- Compressed high schools grades 9-12 with integrated high school and collegiate curricula;
- Located on or near college campuses across the nation;
- Small student populations focusing on historically underserved and underrepresented in college;
- No cost college access - dual enrollment
- Stepped increases in the percent of graduates earning college credits, earning more than one year's worth of college credits, and earning an Associate's degree or two years of college.

Meshing of Ideology

Intensive Counseling

Courses – dual credit progresses to dual enrollment

Audience – At Risk Youth

Target Grades – 11-13

Community College partner

Near or Embedded on college campus

Middle College

Career Technical Education

Early College

Location – anywhere

Any Post Secondary partner

Target Grades – 9-12

Audience – Top 20 - 30 percentile

Courses – dual enrollment

Workforce Internships

Vocational Tech

High Tech High

BOCES

New Tech

Middle-Early College

Smart Scholars

Smart Scholars/P-Tech

Smart Transfer

High Tech High

STEM Summer Institutes

New Tech

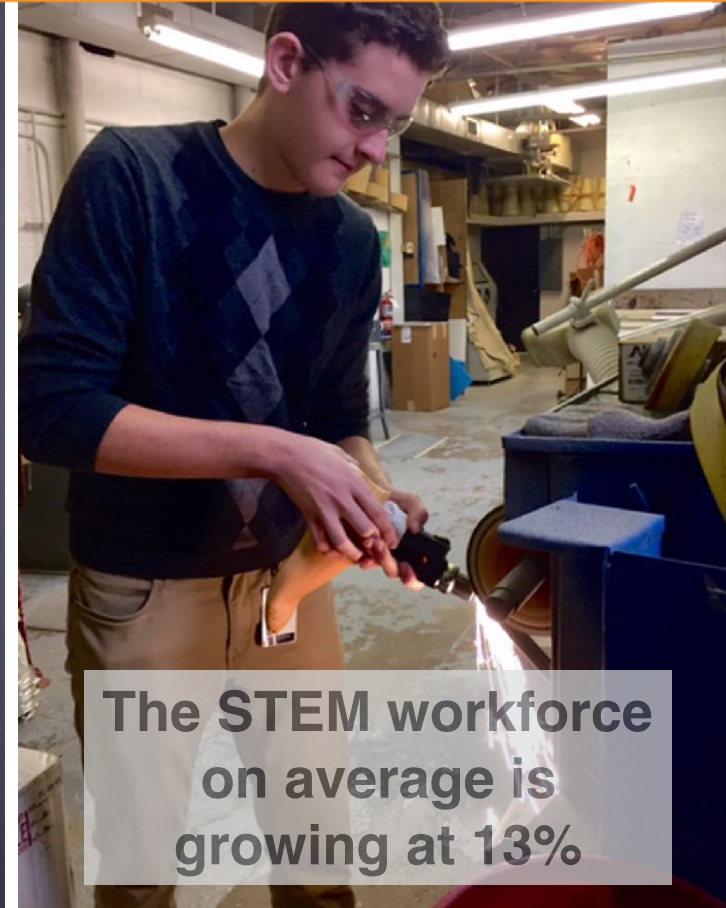
P-Tech

STEM Academies

STEM Learning Labs

Statistics

85% of Middle College Students finish College



The STEM workforce on average is growing at 13%

Millennials will account for over 50% of the workforce by 2025

- 2019 Middle College students will be college and workforce ready in 2 yrs
- 2019 Middle School students will graduate in 2025, let's make sure they are ready for college and workforce

Integrated Whole Community Model

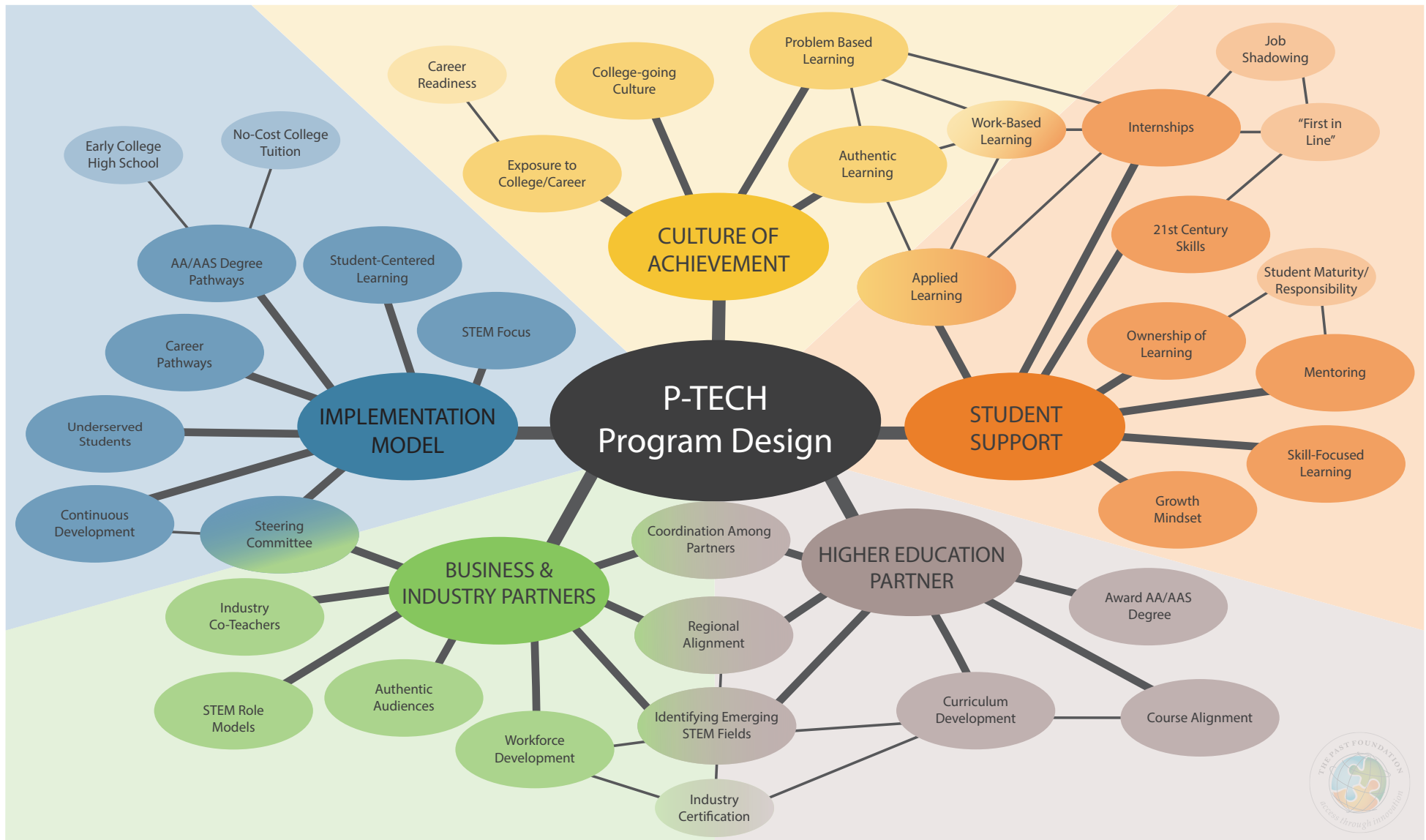


Figure 3: P-TECH PROGRAM DESIGN. This figure shows five core nodes of the program design: *IMPLEMENTATION MODEL*, *CULTURE OF ACHIEVEMENT*, *STUDENT SUPPORT*, and two *PARTNERS* (*HIGHER EDUCATION* and *BUSINESS & INDUSTRY*). The P-TECH Program reflects an early college approach designed to reach underserved students, blending high school and college in a six-year program culminating in an AA/AAS degree. *CULTURE OF ACHIEVEMENT* is aligned to STEM career pathways and work-based learning that exposes students to authentic problem solving, collaborative work with STEM professionals, gaining a growth mindset, STEM skills, and exposure to potential employers. The role of *HIGHER EDUCATION* and *BUSINESS & INDUSTRY* are coordinated through a P-TECH Steering Committee that provides the forum for identifying priorities for workforce development, curriculum development and alignment.

PAST Innovation Lab - Pathways to Workforce



THE
PAST FOUNDATION

The Pulse of STEM | The Paths to STEM

middle school | 6-8 (m-series)

m
mach

m
ladies
maladies

medi
media

missile
missile

high school | 9-10 (s-series)

Surge
surge

Stiff
stiff

Signals
signals

Space
space

high school | 11-12 (learning labs)

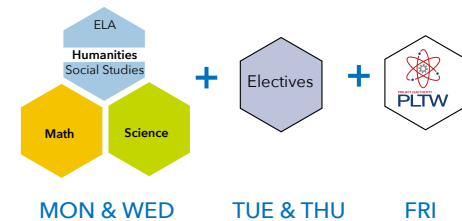
energy
energy

bodies
bodies

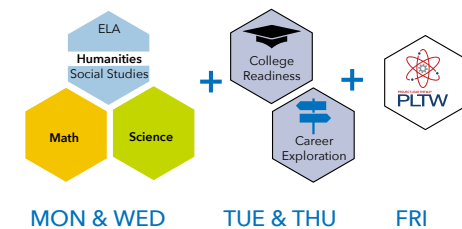
digital
digital

explore
explore

Middle School



High School



Proposed Scheduling

mud
mud

maker
maker

Sprouts
sprouts

Sprockets
sprockets

growth
growth

design
design



culinary arts



additive manufacture

PAST Innovation Lab - Summer Institute Series



Sprouts Hybrid S-Series (6-weeks Summer)

M	T	W	R	F
 English Social Studies Horticulture Permaculture Chemistry Math	 College Readiness Study Skills	 English Social Studies Horticulture Permaculture Chemistry Math	 Career Exploration Rotations Guest Speakers	 CTE Principles of Environmental Sustainability PLTW

Students are encouraged to enter the scaffolded pathway in the Growth Series.

Students who are not ready for College or College Plus can start with the Hybrid S-Series.

From there they can opt to take the complete Growth Learning Lab curriculum or the Culinary Arts Summer Institute.

The Summer Institute can be taken in the summer, and then can be followed by the Growth Learning Lab.



Learning Lab Series (Academic Year)

	M	T	W	R	F
Summer Fall	 Metro English 1100 Internship Open for College Elective/Course High School Class	 Metro Biology 1111 Horticulture HCS2201 - OSU Open as needed	 Metro English 1100 Internship Open for College Elective/Course High School Class	 Metro Biology 1111 Horticulture HCS2201 - OSU Open for College Elective/Course High School Class	 Intern Lab Open for College Elective/Course High School Class
Winter Spring	 Metro English 2367 Food Science FDSCTE 2200 - OSU Capstone Seminar Open for College Elective/Course High School Class	 Metro Biology 1127 Internship @Site Capstone	 Metro English 2367 Food Science FDSCTE 2200 - OSU Capstone Seminar Open for College Elective/Course High School Class	 Metro Biology 1127 Internship @Site Capstone	 Intern Lab Open for College Elective/Course High School Class



Summer Institute Series (6-weeks Summer)

	M	T	W	R	F
AM	 Sanitation Basics (for first week) Fundamentals of Baking PAST/Metro Learning Lab	 Sanitation Basics (for first week) Fundamentals of Baking PAST/Metro Learning Lab	 Sanitation Basics (for first week) Fundamentals of Baking PAST/Metro Learning Lab	 Sanitation Basics (for first week) Fundamentals of Baking PAST/Metro Learning Lab	 Sanitation Basics (for first week) Fundamentals of Baking PAST/Metro Learning Lab
PM	 Farmers Garden Basic Food Production	 Farmers Garden Summer Internship	 Farmers Garden Basic Food Production	 Farmers Garden Summer Internship	 Farmers Garden Basic Food Production



The Future of Teaching and Learning

A photograph of students at a robotics competition. In the foreground, a student in a white and black shirt and khaki shorts is kneeling on a red platform, working on a black robotic arm. Another student in a white and black shirt and khaki shorts is standing next to him, also working on the robot. In the background, other students and spectators are visible, some standing and some sitting. The setting appears to be an indoor arena or gymnasium.

What Will Alaska's Model Look Like?



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